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# SEED LIST

A list of forage plant seeds and the incidental  
seeds commonly found with them.

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Many synonyms and secondary common names are  
included in the list. These unapproved names  
appear as underscored words. The approved common  
names are supplied through the courtesy of  
Dr. Frederick V. Coville, Division of Plant  
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Division of Seed Investigations  
Bureau of Plant Industry  
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DISTINGUISHING CHARACTERS OF SEEDS OF VICIA VILLOSA AND VICIA DASYCARPA  
(See accompanying photograph of drawings of seeds).

By

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Seeds of Vicia villosa and Vicia dasycarpa are distinguishable chiefly by differences in size, form and conditions relating to the hilum. Normal seeds of both kinds may be black or somewhat mottled. The distance of the chalaza from the hilum is similar in the two kinds, ranging from one-third to the full length (rarely) of the hilum.

Vicia villosa:- Seeds normally about spherical, rolling readily on a level surface and coming to rest gradually; sometimes somewhat compressed, rolling less readily and coming to rest abruptly; averaging smaller than seeds of V. dasycarpa; occasional seeds brown, reddish or tawny often with light-colored hilum.

Hilum:- Normally black or brown-tinged, ovate or ovate-oblong, sometimes narrowly oblong, variable in size, some very small seeds having a very large hilum.

Surface of the hilum:- Usually flush with the general surface (a, b), sometimes slightly depressed below the general surface (e, f) at the edges (duplicated in some seeds of V. dasycarpa); sometimes elevated and convex between the edges (i), convex between the edges and slit (j), or depressed from the edges to the slit (k); the surface finely granular (viewed under high magnification) or more or less smoothed and somewhat lustrous; a longitudinal light stripe including the slit occasionally evident. Minute white particles (not dust) often are concentrated on the border.

Slit of the hilum:- Normally closed and very narrow due to the sharply angled adjacent edges of the halves of the surface (a and b, e and f), occasionally somewhat grooved (c, d) due to the edges being rounded (confusing with the similar prevailing condition in V. dasycarpa). Some seeds, particularly in old seed, display the slit as gaping thus exposing the white tissue of the interior (g, h). This condition does not appear to occur in V. dasycarpa.

Vicia dasycarpa:- Seeds averaging larger than those of V. villosa, most of them noticeably larger, the smaller seeds about the size of the larger seeds of V. villosa and often nearly spherical, the larger seeds being distinctly compressed. In general, the seeds of this species do not roll readily and come to rest abruptly. Some seeds are coarsely, but not sharply, mottled.

Hilum:- In general, relatively smaller, particularly narrower, than that of V. villosa, occasionally ovate, more commonly narrowly ovate, oblong or narrowly oblong, scarcely linear, variable in size, a light stripe along the slit usually evident, the sides primarily dark to black, or brown.

Surface of the hilum:- Usually depressed below the level of the surrounding surface (a-d), often conspicuously so (e) (viewed with the compound microscope), sometimes nearly as flush with the surface as in typical V. villosa (then conflicting with the latter); flat or convex between the lateral edges, very finely rugose, particularly between the light stripe and the edge (viewed under high magnification and in contrast to the finely granular surface in V. villosa).



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The surface is more or less sprinkled with minute white particles (often accumulated to form a narrow white border), or is generally finely scurfy (making the hilum lighter colored than in V. villosa).

Slit of the hilum:- Usually having a slight, sometimes a very evident, groove (a, b, e), this sometimes not evident (c, d) (the slit then appearing as in V. villosa).

Remarks:- Vetch seeds may be well held in position for examining the hilum by pressing them into sand of a depth about equal to the diameter of the seed. By arranging a considerable number of seeds with the scars exposed, most of the variation in conditions is observable, particularly if different lots are represented.

The use of a compound microscope (preferably the binocular type) is essential. Different magnifications from 30 to 85 are found useful. The high magnification is essential when examining the surface texture of the hilum.

When identifying seeds, conflicting conditions are sure to appear. Differences in several respects between the two kinds have been noted above. If any one or two appear to be in conflict, decide the identification on the basis of the remaining conditions. It is exceptional for more than one condition, or sometimes two conditions, to be conflicting. One or another of those mentioned above may be so evident as to be conclusive. The hand-lens will decide the question for many seeds. The compound microscope will be needed to decide an indistinct groove at the slit of the hilum, or an indistinct depression of the margin of the hilum. The granular texture of the hilum of V. villosa and the rugose texture of that of V. dasycarpa appearing under high magnification are very conclusive.

A small quantity of authentic seeds of the two kinds should be thoroughly studied prior to attempting to separate a mixture of the kinds.

Care should be taken not to mistake seeds of Vicia sativa and V. pannonica for those of V. dasycarpa. Both occur in imported seed of V. villosa.

Seeds of V. sativa are, in general, more distinctly flattened; if mottled, more distinctly so; the hilum narrower and more wedge-shaped, often more distinctly depressed; the vascular particle at the narrow end of the hilum comparatively large and elevated (instead of a minute, indistinct particle as in both V. villosa and V. dasycarpa). The chalaza often is very close to the hilum.

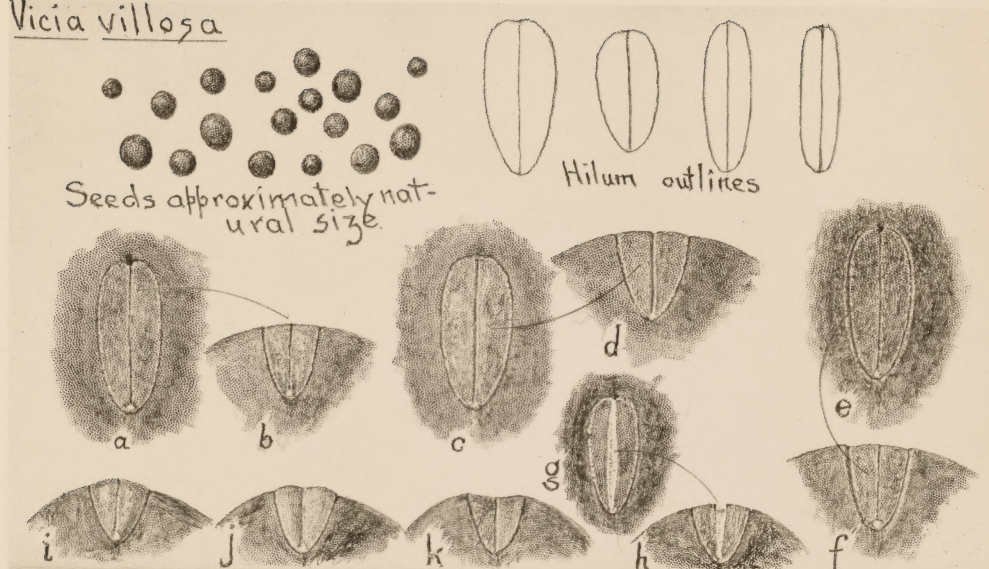
Seeds of V. pannonica often are mottled, variously compressed; the hilum very similar to that of V. dasycarpa, but often diagonal to the longest diameter of the seed. A conclusive distinction is in the chalaza located opposite the hilum.

Neither of these kinds should be confounded with seeds of V. villosa.

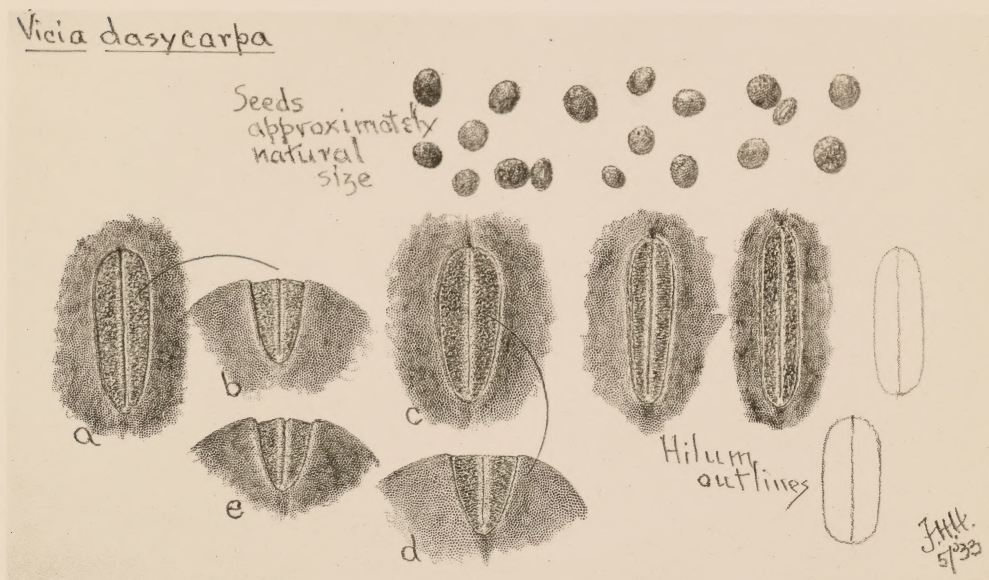
The black seeds of Vicia angustifolia may be mistaken for those of V. villosa owing to their similar size and form. The hilum differs from that of V. villosa in being more wedge-shaped, the vascular particle more prominent, the surface arched slightly, its edges usually somewhat depressed and the chalaza usually nearer the hilum than in V. villosa.



Vicia villosa



Vicia dasycarpa



DISTINGUISHING CHARACTERS OF SEEDS  
OF  
VICIA VILLOSA AND VICIA DASYCARPA

J.H.K.  
5/23



UNITED STATES DEPARTMENT OF AGRICULTURE  
Bureau of Plant Industry

DISTINGUISHING CHARACTERS OF SEED OF CERTAIN CULTIVATED LESPEDEZAS  
(See accompanying photograph of drawings of seeds)

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The kinds of Lespedezas under consideration are the common lespedeza, Lespedeza striata, often referred to in the past as Japan clover, the Kobe variety of L. striata, the Korean lespedeza, L. stipulacea, and Lespedeza sericea. These kinds are receiving special consideration by the Division of Forage Crops and Diseases of this Department.

Commercial seed of these Lespedezas consists chiefly of seed enclosed in the pods. Owing to conditions of preparation, often some of the pods are broken open resulting in a variable proportion of free seed in the commercial product, the broken pods being removed in the process of cleaning the seed.

In general, the single-seeded pods are compressed, lenticular, somewhat unsymmetrically oval or elliptical as viewed from the side, more or less appressed-hairy and have a more or less evident network of slender, slightly elevated and somewhat colored lines.

Normally in commercial seed, the pods are surrounded by the persistent calyx at the base of which are attached three scale-like bracts. A part of commercial seed consists of pods partially or wholly freed of the calyces.

Characters useful in distinguishing the seed of the several kinds appear in the size, form and color of the pods, calyces, bracts and hulled seeds. The pubescence, reticulation and glandular-dotting of the pods are useful in this respect.

Common lespedeza, L. striata, and Kobe lespedeza, L. striata, show much similarity in the pods, calyces, bracts and seeds. Selections of seed of each can be made that practically would defy identification one from the other. On the other hand, small bulk portions of these kinds appear to be distinguishable.

Referring to both kinds, the pods are, in general, obovate, tapering, abruptly to a pointed beak at the apex; the surface light brown; the reticulations usually distinct, slightly raised above the surface and tinged with darker brown, the surface of the pod and calyx more or less hairy; the glandular dots numerous and mostly distinct; the calyx  $1/2$  to  $3/4$  the length of the pod, somewhat bell-shaped, the 5 lobes about half the length of the calyx, similar except that two are united for about half their length, all lobes ciliate-margined, a dark spot usually evident at each sinus; the bracts equalling or exceeding the tube of the calyx; seeds ovate-elliptical, somewhat compressed, the hilum on the edge midway between the center and end, variously light brown-mottled on a purplish background, occasional seeds uniformly purplish-brown, the surface smooth and lustrous; immature seeds more distinctly compressed, brown, devoid of purple and dull.

Of samples observed, pods and calyces of common L. striata average smaller and darker colored than those of the Kobe L. striata. The seeds also are smaller than those of the latter. Pubescence is more pronounced in the Kobe L. striata, the calyx often being densely hairy, the bracts bearing some hairs while these are nearly wanting in common L. striata. The bracts of Kobe L. striata are mostly broader and more numerous veined than in common L. striata.



Pods of Korean lespedeza, L. stipulacea, are grayish brown in general color which is distinctive of this kind with respect to the others considered here. The prevailing form of individual pods is obovate, a slightly quadrangular form often suggested, the short-beaked apex often turned to one side; reticulation distinct, the ridges noticeably dark colored and somewhat lustrous, the surface distinctly and numerously glandular-dotted, sparingly hairy or the hairs more numerous toward the apex; calyx  $1/3$  to  $1/2$  the length of the pod, thin and frail, straw-colored or light brown, often torn or absent from pods in commercial seed, the ovate lobes equal to or exceeding the tube, their margins ciliate, the two united lobes joined nearly to the apex which thus is slightly notched, a dark spot at each of the 4 sinuses; bracts mostly longer than the calyx tube, few-veined; both calyx and bracts devoid of hairs; seeds elliptical or somewhat oblong, very dark purple, not mottled, but slightly compressed, the hilum within a light colored area near one end of the seed, the surface lustrous.

The pods of commercial seed of Lespedeza sericea mostly are devoid of the calyx, reddish-brown and dull, the sides of the pod sparingly hairy or more numerously hairy toward the apex, the edges densely white-hairy; the reticulation indistinctly evident, having essentially the color of the surface of the pod which is not glandular-dotted. The pods display two distinguishable forms; one, elliptical, tapering to a short or attenuate, straight or curved beak; the other more obovate-elliptical terminating in a short recurved beak. Calyx  $1/2$  to  $3/4$  the length of the pod, cleft nearly to the base, densely white-hairy, the lobes awl-shaped, the united lobes joined for  $1/2$  to  $2/3$  their length; bracts minute, linear, hairy, indistinct; seeds somewhat compressed, essentially elliptical or narrowly ovate (from the longer more elliptical pods), or shorter and ovate (from the more obovate pods having the short recurved beak). The seeds are green-tinged, light olive or light brown, sparingly speckled, or having small patches or stripes of light purple; the surface smooth and slightly lustrous or dull.

December 1, 1934.





*Lespedeza striata*, Common



*Lespedeza striata*, Kobe



*Lespedeza stipulacea*, Korean



*Lespedeza sericea*

DISTINGUISHING CHARACTERS OF SEED OF CERTAIN CULTIVATED LESPEDEZAS



Arctium sp.	Burdock
Arctium lappa	Big burdock
Arenaria sp.	Sandwort
Arenaria serpyllifolia	Thymeleaf sandwort
Argemone sp.	Pricklepoppy
Argemone alba	White pricklepoppy
Argemone hispida	Hedgehog pricklepoppy
Aristida sp.	Three-awn
Aristida dichotoma	Poverty three-awn
Aristida stricta	Pineland three-awn
Arnoseris minima	Lamb-succory
Arrhenatherum elatius	Tall oatgrass
Artemisia sp.	Wormwood
Artemisia annua	Sweet wormwood
Artemisia biennis	Biennial wormwood
Asphodelus tenuifolius	No common name
Aster ericoides	Heath aster
Aster frondosus	No common name
Aster oblongifolius	Aromatic aster
Astragalus sp.	Astragalus
Astragalus sinicus	Genge
Atriplex sp.	Saltbush
Atriplex hastata	Fat-hen; <u>saltbush</u>
Atriplex hortensis	Garden orach
Atriplex rosea	Redscale; <u>red orach</u>
Atriplex semibaccata	Australian saltbush
Atriplex truncata	Wedgescale orach; <u>saltbush</u>
Avena fatua	Wild oat
<u>Avena flavescens</u> Trisetum flavescens	Yellow trisetum; <u>yellow oatgrass</u>
Avena nuda	Naked oat
Avena pubescens	Perennial oat; <u>downy oatgrass</u>
Avena sativa	Oat

Axonopus compressus	Carpet grass
<u>Paspalum compressum</u>	
Axyris amaranthoides	Russian-pigweed
<u>Barbarea barbarea</u>	Bitter wintercress
<u>Barbarea vulgaris</u>	
Campe barbarea	
<u>Barbarea verna</u>	Early wintercress
<u>Barbarea praecox</u>	
Campe verna	
Bassia sp.	Bassia
Bassia hyssopifolia	Fivehook bassia
<u>Kochia hyssopifolia</u>	
Beckmannia sp.	Sloughgrass
Beckmannia syzigachne	American sloughgrass
Bellis perennis	English daisy
Berteroa incana	Hoary alyssum
Bidens bipinnata	Spanish-needles
Bidens cernua	Nodding sticktight; <u>smaller bur-marigold</u>
Bidens frondosa	Sticktight; <u>beggar-ticks</u>
Bignonia radicans	Trumpet creeper
<u>Tecoma radicans</u>	
<u>Boebera papposa</u>	Prairie-dog-weed; <u>false dog-fennel</u>
Dyssodia papposa	
Boerhaavia erecta	Spiderling
Boisduvalia densiflora	No common name
Boisduvalia stricta	No common name
Brassica sp.	Mustard
Brassica adpressa	No common name
Brassica alba	White mustard
<u>Sinapis alba</u>	
Brassica arvensis	Charlock
<u>Sinapis arvensis</u>	
Brassica campestris	Bird rape; <u>wild kale</u> ; <u>wild turnip</u> ; <u>common</u>
Brassica juncea	India mustard; <u>brown mustard</u> <u>yellow mustard</u>
Brassica napus	Winter rape
Brassica napus var.	Oilseed rape; <u>annual oilseed rape</u>
Brassica nigra	Black mustard; <u>trieste brown mustard</u>
Brassica oleracea var.	Cabbage, cauliflower, broccoli, brussels sprouts, kale, collards
Brassica rapa var.	Turnip rape; <u>biennial turnip rape</u>



Briza media	Perennial quaking-grass; <u>quake grass</u>
Briza minor	Little quaking-grass
Bromus sp.	Brome grass
Bromus arvensis	Field brome; <u>field chess</u>
Bromus brizaeformis	Rattlesnake chess
Bromus carinatus <u>Bromus marginatus</u>	California brome
Bromus catharticus <u>Bromus unioloides</u>	Rescue grass
Bromus commutatus <u>Bromus pratensis</u>	Hairy chess
<u>Bromus hordeaceus</u> Bromus mollis	Soft chess
Bromus inermis	Smooth brome; <u>awnless brome grass</u>
Bromus racemosus	Smooth chess; <u>bald chess</u>
Bromus rigidus <u>Bromus maximus</u>	Ripgut grass
Bromus secalinus	Chess; <u>cheat</u>
Bromus sterilis	Barren chess; <u>poverty chess</u>
Bromus tectorum	Downy chess; <u>slender chess</u>
<u>Bromus unioloides</u> Bromus catharticus	Rescue grass
Buchloe dactyloides <u>Bulbilis dactyloides</u>	Buffalo grass
Bursa bursa-pastoris <u>Capsella bursa-pastoris</u>	Shepherds-purse
Calamagrostis sp.	Reedgrass
Camelina sp.	False-flax
Camelina dentata	Flatseed false-flax
Camelina microcarpa	Littleseed false-flax
Camelina sativa	Bigseed false-flax
Campe sp.	Wintercress
Campe barbarea <u>Barbarea barbarea</u> <u>Barbarea vulgaris</u>	Bitter wintercress
Campe verna <u>Barbarea verna</u> <u>Barbarea praecox</u>	Early wintercress
Cannabis sativa	Hemp
<u>Capriola dactylon</u> Cynodon dactylon	Bermuda grass

<u>Capsella bursa-pastoris</u> Bursa bursa-pastoris	Shepherds-purse
Carduus sp.	Thistle
<u>Carduus arvensis</u> Cirsium arvense	Canada thistle
Carduus crispus	Curly thistle
<u>Carduus discolor</u> Cirsium discolor	Field thistle
<u>Carduus lanceolatus</u> Cirsium lanceolatum	Bull thistle
<u>Carduus undulatus</u> Cirsium undulatum	Plains thistle
Carex sp.	Sedge
Carex frankii	No common name
Carthamus tinctorius	Safflower
Carum oreganum	Eppaw
Cassia sp.	No common name
Cassia marilandica	Wild senna
Cassia nictitans	Sensitive-pea
<u>Cathartolinum virginianum</u> Linum virginianum	Woodland flax; <u>wild yellow flax</u>
<u>Caucalis nodosa</u> Torilis nodosa	Hedgeparsley; <u>knotted hedge-parsley</u>
Cenchrus sp.	Sandbur
Cenchrus pauciflorus	Field sandbur
Cenchrus tribuloides	Dune sandbur
Centaurea sp.	Star-thistle
Centaurea americana	Basketflower
Centaurea calcitrapa	Star-thistle
Centaurea cyanus	Cornflower
Centaurea jacea	Brownscale knapweed
Centaurea melitensis	Malta star-thistle
Centaurea picris	Russian knapweed
Centaurea solstitialis	Yellow star-thistle; <u>Barnaby's knapweed thistle</u>
Cephalaria transylvanica	No common name
Cerastium sp.	Cerastium



Cerastium viscosum	Sticky mouse-ear
Cerastium vulgatum	Big mouse-ear; <u>mouse-ear chickweed</u>
<u>Chaetochloa italica</u> <u>Setaria italica</u>	Foxtail millet; German; Hungarian; golden ( <u>common</u> ); and others
<u>Chaetochloa lutescens</u> <u>Setaria lutescens</u>	Yellow bristlegrass; <u>yellow foxtail</u>
<u>Chaetochloa viridis</u> <u>Setaria viridis</u>	Green bristlegrass; <u>green foxtail</u>
<u>Chaetochloa verticillata</u> <u>Setaria verticillata</u>	Bur bristlegrass
Chaerophyllum procumbens	No common name
<u>Chamaesyce preslii</u> <u>Euphorbia preslii</u> <u>Euphorbia nutans</u>	Nodding spurge
<u>Chamaesyce maculata</u> <u>Euphorbia maculata</u>	Spotted spurge
Cheirinia sp.	Blistercress
Cheirinia aspera <u>Erysimum asperum</u>	Rough blistercress; <u>orange mustard</u>
Cheirinia cheiranthoides <u>Erysimum cheiranthoides</u>	Treacle-mustard; <u>wormseed mustard</u>
Chenopodium sp.	Goosefoot
Chenopodium album	Lambsquarters
Chenopodium ambrosioides <u>Chenopodium anthelminticum</u>	Mexican-tea; <u>wormseed</u>
Chenopodium berlandieri	Pitseed goosefoot
Chenopodium hircinum	No common name
Chenopodium leptophyllum	Narrowleaf goosefoot
Chenopodium murale	Nettleleaf goosefoot
Chloris sp.	Fingergrass
Chloris divaricata	Australian fingergrass
Chloris gayana	Rhodes grass
Chloris virgata	Feather fingergrass
Chondrilla juncea	Skeletonweed
Chrysanthemum leucanthemum	Oxeye daisy
Chrysanthemum segetum	Corn-marigold
Cichorium intybus	Chicory



<i>Cicuta</i> sp.	Waterhemlock
<i>Cicuta</i> maculata	Spotted waterhemlock
<i>Cirsium</i> sp.	Thistle
<i>Cirsium</i> arvense <u><i>Carduus arvensis</i></u>	Canada thistle
<i>Cirsium</i> discolor <u><i>Carduus discolor</i></u>	Field thistle
<i>Cirsium</i> lanceolatum <u><i>Carduus lanceolatus</i></u>	Bull thistle
<i>Cirsium</i> undulatum <u><i>Carduus undulatus</i></u>	Plains thistle
<i>Claytonia</i> perfoliata	Minerslettuce
<i>Cleome</i> serrulata	Bee-flower; <u>pink cleome</u>
<i>Clinopodium</i> acinos <u><i>Satureja acinos</i></u>	Basil-thyme
<i>Clinopodium</i> vulgare	Wildbasil
<i>Cnicus</i> benedictus	Blessed thistle
<i>Collinsia</i> sp.	No common name
<i>Collomia</i> grandiflora	No common name
<i>Comptonia</i> peregrina <u><i>Comptonia asplenifolia</i></u> <u><i>Myrica asplenifolia</i></u>	Sweetfern
<i>Conium</i> maculatum	Poisonhemlock
<i>Conringia</i> orientalis	Hares-ear-mustard
<i>Convolvulus</i> sp.	Bindweed
<i>Convolvulus</i> arvensis	Bindweed; <u>field bindweed</u> ; <u>creeping jenny</u>
<i>Convolvulus</i> sepium	Hedge bindweed
<i>Coreopsis</i> tinctoria	Calliopsis
<i>Coriandrum</i> sativum	Coriander
<i>Corispermum</i> hyssopifolium	Tickseed; <u>bug-seed</u>
<i>Coronilla</i> varia	Crownvetch
<i>Corynephorus</i> canescens <u><i>Weingartneria canescens</i></u>	Club-awn
<i>Crepis</i> sp.	Hawksbeard
<i>Crepis</i> capillaris <u><i>Crepis virens</i></u>	Smooth hawksbeard
<i>Crepis</i> setosa	No common name
<i>Crepis</i> tectorum	Narrowleaf hawksbeard
<i>Crotalaria</i> sp.	Crotalaria



Crotalaria juncea	Sunn-hemp
Croton sp.	Crotonweed
Cuphea petiolata <u>Parsonsia petiolata</u>	Clammy cuphea
Cuscuta sp.	Dodder
<u>Cuscuta arvensis</u> Cuscuta pentagona	Field dodder
Cuscuta epilinum	Flax dodder
Cuscuta epithymum	Clover dodder
Cuscuta indecora	Bigseed dodder; <u>large-seeded alfalfa dodder</u>
Cuscuta pentagona <u>Cuscuta arvensis</u>	Field dodder
Cuscuta planiflora	Littleseed dodder; <u>small-seeded alfalfa dodder</u>
Cuscuta racemosa chiliana	Chilean dodder
Cycloloma atriplicifolium	Ringwing; <u>winged pigweed</u>
<u>Cymbia occidentalis</u> Krigia occidentalis	No common name
Cynodon dactylon <u>Capriola dactylon</u>	Bermuda grass
Cynoglossum virginicum	Blue houndstongue; <u>wild comfrey</u>
Cynosurus sp.	Dogtail
Cynosurus cristatus	Crested dogtail
Cynosurus echinatus	No common name
Cyperus sp.	Flat-sedge
Cyperus esculentus	Chufa
Cyperus melanostachys	No common name
Cyperus rotundus	Nutgrass; <u>coco</u>
Dactylis glomerata	Orchard grass; <u>cocksfoot grass</u>
Danthonia sp.	Oatgrass
Danthonia californica	California oatgrass
Danthonia nuda	No common name
Danthonia semiannularis	Wallaby grass
Danthonia spicata	Poverty oatgrass; <u>common wild oatgrass</u>
Datura stramonium <u>Datura tatula</u>	Jimsonweed
Daucus carota	Wild carrot



Delphinium consolida	Field larkspur
Deschampsia sp.	Hairgrass
Deschampsia caespitosa <u>Aira caespitosa</u>	Tufted hairgrass
Deschampsia flexuosa <u>Aira flexuosa</u>	Crinkled hairgrass; <u>eastern hairgrass</u>
<u>Desmodium tortuosum</u> <u>Meibomia tortuosa</u> <u>Meibomia purpurea</u>	Florida beggarweed; <u>beggarweed</u> ; <u>Cherokee clover</u>
Dianthus armeria	Deptford pink
Digitalis purpurea	Common foxglove
Digitaria sp.	Crabgrass
Digitaria exilis <u>Syntherisma exile</u>	Fundi grass
Digitaria filiformis <u>Syntherisma filiformis</u>	Slender crabgrass
Digitaria ischaemum <u>Syntherisma ischaemum</u>	Smooth crabgrass; <u>small crabgrass</u>
Digitaria orbata	No common name
Digitaria sanguinalis <u>Syntherisma sanguinalis</u>	Crabgrass
Diodia teres	Rough buttonweed
Dipsacus sylvestris	Wild teasel
Distichlis sp.	Saltgrass
Distichlis spicata	Seashore saltgrass; <u>marsh spikegrass</u>
Distichlis stricta	Desert saltgrass
Dondia sp. <u>Suaeda sp.</u>	Seepweed; <u>sea blite</u>
Downingia sp.	No common name
<u>Dracocephalum sp.</u> <u>Moldavica sp.</u>	Dragonhead
<u>Dracocephalum parviflorum</u> <u>Moldavica parviflora</u>	American dragonhead
<u>Dracopis amplexicaulis</u> <u>Rudbeckia amplexicaulis</u>	Clasping coneflower
Dyssodia papposa <u>Boebera papposa</u>	Prairie-dog-weed
Echinochloa colonum <u>Panicum colonum</u>	Jungle-rice
Echinochloa crusgalli	Barneyard grass



Echinochloa crusgalli frumentacea	Japanese millet
<u>Echinochloa frumentacea</u>	
Echium vulgare	Blueweed
Eleocharis sp.	Spikerush
Eleocharis obtusa	Blunt spikerush
Eleocharis tenuis	Slender spikerush
Eleusine coracana	Ragi; <u>African millet</u>
Eleusine indica	Goosegrass; <u>wiregrass</u> ; <u>yardgrass</u>
Elymus sp.	Wild-rye
Epilobium sp.	Willow-weed
Epilobium adenocaulon	Sticky willow-weed
Epilobium paniculatum	Panicle willow-weed
Eragrostis sp.	Lovegrass
Eragrostis abyssinica	Teff
Eragrostis cilianensis	Stinkgrass; <u>strong-scented lovegrass</u>
<u>Eragrostis major</u>	
Eragrostis poaeoides	Little lovegrass
<u>Eragrostis eragrostis</u>	
<u>Eragrostis minor</u>	
Erechtites hieracifolia	Burnweed; <u>fire weed</u>
Erechtites prenanthoides	Australian burnweed
Eremochloa ophiuroides	Centipede grass
Erigeron sp.	Fleabane
Erigeron annuus	Whitetop fleabane
Erigeron canadensis	Horseweed; <u>Canada fleabane</u>
<u>Leptilon canadense</u>	
Erigeron strigosus	Daisy fleabane
<u>Erigeron ramosus</u>	
Eriochloa sp.	Cupgrass
Eriochloa punctata	Everlasting grass
Erodium cicutarium	Alfileria
Eruca sativa	Salad-rocket; <u>rocquette</u>
Erucastrum gallicum	Rocket-weed; <u>Pollicks mustard</u>
<u>Erucastrum pollichii</u>	
<u>Ervum lens</u>	Lentil
<u>Lens esculenta</u>	
Lentilla lens	



<u>Erysimum asperum</u> Cheirinia aspera	Rough blistercress; <u>orange mustard</u>
<u>Erysimum cheiranthoides</u> Cheirinia cheiranthoides	Treacle-mustard; <u>wormseed mustard</u>
<u>Erysimum officinale</u> <u>Sisymbrium officinale</u>	Hedgemustard
Eschscholtzia californica	California-poppy
Euphorbia sp.	Spurge
Euphorbia cyparissias	Cypress spurge
Euphorbia esula	Leafy spurge
Euphorbia falcata	Sickle spurge
Euphorbia maculata <u>Chamaesyce maculata</u>	Spotted spurge
Euphorbia preslii <u>Euphorbia nutans</u> <u>Chamaesyce preslii</u>	Nodding spurge
Euphrasia sp.	Eyebright
Fagopyrum vulgare <u>Fagopyrum fagopyrum</u> <u>Fagopyrum esculentum</u>	Common buckwheat
Festuca sp.	Fescue
Festuca capillata <u>Festuca tenuifolia</u>	Hair fescue
Festuca ovina duriuscula	Hard fescue
Festuca elatior <u>Festuca elatior pratensis</u>	Meadow fescue
Festuca elatior arundinacea <u>Festuca arundinacea</u>	Reed fescue
Festuca rubra heterophylla	Shade fescue
Festuca myuros	Rattail fescue
Festuca octoflora	Sixweeks fescue; <u>slender fescue</u>
Festuca ovina	Sheep fescue
Festuca rubra	Red fescue
Festuca rubra commutata <u>Festuca rubra fallax</u>	Chewings fescue
<u>Festuca tenuifolia</u> Festuca capillata	Hair fescue
Fimbristylis autumnalis	No common name
Fimbristylis diphylla <u>Fimbristylis laxa</u>	No common name
Franseria discolor <u>Gaertneria discolor</u>	Skeletonleaf bur-sage; <u>white-leaved gaertneria</u>



Galega sp.	Goatsrue
Galega officinalis	Common goatsrue
Galeopsis sp.	Hempnettle
Galeopsis ladanum	Red hempnettle
Galeopsis tetrahit	Hempnettle
Galinsoga parviflora	Quickweed
Galium sp.	Bedstraw
Galium aparine	Catchweed; <u>cleavers</u>
Gastroidium lendigerum	Nitgrass
Geranium sp.	Cranesbill
Geranium carolinianum	Carolina cranesbill
Geranium columbinum	Longstalk cranesbill
Geranium dissectum	Cutleaf cranesbill
Geranium molle	Dovefoot cranesbill
Geranium pusillum	Small cranesbill
Geum sp.	Avens
Geum canadense	White avens
<u>Geum album</u>	
Gilia sp.	Gilia
Gilia capitata	Globe gilia
Glaucium corniculatum	Sea-poppy
Glyceria sp.	Mannagrass
Glyceria fluitans	Mannagrass
<u>Panicularia fluitans</u>	
Glyceria grandis	American mannagrass; <u>tall mannagrass</u>
<u>Panicularia americana</u>	
Glyceria striata	Fowl mannagrass
<u>Panicularia nervata</u>	
<u>Glycine hispida</u>	Soybean
Soja max	
Glycyrrhiza lepidota	Wild licorice
Godetia sp.	Godetia
Gnaphalium sp.	Cudweed
Gnaphalium purpureum	No common name
Gnaphalium uliginosum	Mouse-ear cudweed; <u>low cudweed</u>
Grindelia sp.	Gumweed
Grindelia squarrosa	Curlycup gumweed



Guizotia abyssinica	Nigerseed
Hedeoma sp.	False-pennyroyal
Hedeoma hispida	Rough pennyroyal
Hedeoma pulegioides	American pennyroyal
Hedysarum coronarium	Sulla
Helenium sp.	Sneezeweed
Helenium autumnale	Common sneezeweed
Helenium nudiflorum	Purplehead sneezeweed
Helenium tenuifolium	Bitterweed
Helianthus sp.	Sunflower
Helianthus annuus	Common sunflower
Helianthus grosseserratus	Sawtooth sunflower
Heliotropium sp.	Heliotrope
Heliotropium curassavicum	Salt heliotrope
Hibiscus trionum	Flower-of-an-hour; <u>bladder ketmia</u>
Hieracium sp.	Hawkweed
Hieracium aurantiacum	Orange hawkweed
Hieracium florentinum	King-devil
<u>Holcus halepensis</u> Sorghum halepense	Johnson grass
Holcus lanatus <u>Notholcus lanatus</u>	Velvet grass
Holcus mollis <u>Notholcus mollis</u>	Softgrass; <u>meadow softgrass</u> ; <u>German mesquite grass</u>
<u>Holcus sorghum</u> Sorghum vulgare	Sorghum
<u>Holcus sorghum sudanensis</u> <u>Andropogon sorghum sudanensis</u> Sorghum vulgare sudanensis	Sudan grass
Hookera sp. <u>Brodiaea sp.</u>	Brody
Hordeum sp.	Barley (weed)
Hordeum jubatum	Foxtail barley
Hordeum murinum	Mouse barley; <u>wild barley</u> ; <u>wall barley</u>
Hordeum pusillum	Little barley; <u>wild barley</u>
Hordeum vulgare	Barley

<u>Hosackia americana</u>	Deervetch; <u>prairie birdsfoot trefoil</u>
Lotus americanus	
Houstonia caerulea	Bluets
Houstonia purpurea	Field houstonia
Hyoscyamus niger	Henbane; <u>black henbane</u>
Hymenophyssa pubescens	Ballcress
Hypericum gentianoides	Pineweed; <u>orange-grass</u>
<u>Sarothra gentianoides</u>	
Hypericum perforatum	St. Johnswort; <u>klamath-weed</u>
Hypochaeris radicata	Spotted cats-ear
Ipomoea sp.	Morning-glory
Ipomoea hederacea	Ivyleaf morning-glory
Ipomoea pandurata	Bigroot morning-glory; <u>wild potato</u>
Ipomoea purpurea	Morning-glory
Iva axillaris	Sumpweed; <u>poverty weed</u>
Iva ciliata	Rough sumpweed; <u>marsh elder</u>
Iva xanthifolia	Bigleaf sumpweed; <u>marsh elder</u>
Juncoides sp.	Woodrush
Juncoides campestre	Field woodrush
Juncoides nemorosum	Forest woodrush; <u>wood meadow rush</u>
Juncus sp.	Rush
Juncus balticus	Wiregrass rush
Juncus bufonius	Toad rush
Juncus tenuis	Path rush
Kickxia spuria	Roundleaf toadflax
<u>Linaria spuria</u>	
<u>Knautia arvensis</u>	Field scabiosa
Scabiosa arvensis	
Kochia sp.	Molly
Kochia scoparia	Belvedere
Kochia trichophylla	Summer-cypress
<u>Kochia hyssopifolia</u>	Fivehook bassia
Bassia hyssopifolia	
Koellia sp.	Mountain-mint
<u>Pycnanthemum sp.</u>	
Koellia flexuosa	Slender mountain-mint
<u>Pycnanthemum flexuosum</u>	



Krigia occidentalis	No common name
<u>Cymbia occidentalis</u>	
Kyllinga sp.	No common name
Kyllinga pumila	No common name
Lactuca sp.	Lettuce
Lactuca canadensis	Tall lettuce
Lactuca scariola integrata	Prickly lettuce
<u>Lactuca integrata</u>	
Lactuca pulchella	Chicory lettuce
Lactuca scariola	No common name
Lactuca virosa	No common name
Lagenaria sp.	Gourd
Lamium amplexicaule	Henbit; <u>dead nettle</u>
Lappula sp.	Stickseed
Lappula echinata	European stickseed; <u>sticktight</u>
<u>Lappula lappula</u>	
Lappula occidentalis	Western stickseed; <u>hairy stickseed</u>
<u>"Lappula texana"</u>	
Lappula virginiana	Virginia stickseed
Lapsana communis	Nipplewort
Lathyrus sp.	Pea
Lathyrus aphaca	Yellow pea
Lathyrus hirsutus	Rough pea; <u>perennial sweet pea</u>
Lathyrus palustris	Marsh pea
Lathyrus sativus	Grass pea
Lathyrus sylvestris wagneri	Flat pea
Lathyrus tingitamus	Tangier pea
Lathyrus tuberosus	Groundnut pea; <u>vetchling</u>
<u>Legouzia perfoliata</u>	Venus lookingglass
<u>Specularia perfoliata</u>	
Lentilla lens	Lentil
<u>Lens esculenta</u>	
<u>Ervum lens</u>	
Leontodon sp.	Dandelion
<u>Leontodon autumnalis</u>	Fall-dandelion
<u>Apargia autumnalis</u>	

Leontodon laevigatum <u>Taraxacum erythrospermum</u>	Redseed dandelion
<u>Leontodon nudicaulis</u> Apargia nudicaulis	Rough hawkbit
Leontodon taraxacum <u>Taraxacum officinale</u>	Dandelion
Leonurus cardiaca	Motherwort
Lepidium sp.	Peppergrass
Lepidium bipinnatifidum	Wayside peppergrass
Lepidium campestre	Field peppergrass; <u>field cress</u>
Lepidium densiflorum <u>"Lepidium apetalum"</u>	Prairie peppergrass
Lepidium draba	Perennial peppergrass; <u>hoary cress</u> ; <u>whiteweed</u>
Lepidium nitidum	Tongue peppergrass
Lepidium perfoliatum	Clasping peppergrass
Lepidium repens	Lens peppergrass
Lepidium virginicum	American peppergrass
<u>Leptilon canadense</u> Erigeron canadensis	Horseweed; <u>Canada fleabane</u>
Leptochloa sp.	Sprangletop
<u>Leptochloa imbricata</u> Leptochloa uninervia	No common name
Lespedeza sp.	Lespedeza
Lespedeza sericea	Chinese lespedeza; <u>perennial lespedeza</u>
Lespedeza stipulacea	Korean lespedeza
Lespedeza striata	Common lespedeza
Lespedeza striata var.	Kobe lespedeza
Linaria sp.	Toadflax
<u>Linaria spuria</u> Kickxia spuria	Roundleaf toadflax
Linaria vulgaris <u>Linaria linaria</u>	Butter-and-eggs; <u>common toadflax</u>
Linum usitatissimum	Flax
Linum virginianum <u>Cathartolinum virginianum</u>	Woodland flax; <u>wild yellow flax</u>
Lithospermum sp.	Gromwell
Lithospermum arvense	Field gromwell; <u>corn gromwell</u>



Lobelia sp.	Lobelia
Lobelia inflata	Indian-tobacco
Lolium sp.	Ryegrass
Lolium multiflorum <u>Lolium italicum</u>	Italian ryegrass
Lolium perenne	Perennial ryegrass; <u>English ryegrass</u>
Lolium temulentum	Darnel
Lolium rigidum duthiei	No common name
Lotus americanus <u>Hosackia americana</u>	Deervetch; <u>prairie birdsfoot trefoil</u>
Lotus corniculatus	Birdsfoot trefoil
Ludwigia alternifolia	Seedbox
Lupinus sp.	Lupine
Lychnis sp.	Campion
Lychnis alba	<u>Evening campion</u> ; <u>white campion</u>
Lycopus virginicus	American bugleweed
Lysimachia nummularia	Moneywort
Lythrum hyssopifolia	Hyssop loosestrife
Madia glomerata	Cluster tarweed
Madia sativa	Chilean tarweed
Malva sp.	Mallow
Malva crispa	Curly mallow
Malva parviflora	Little mallow
Malva rotundifolia	Running mallow; <u>cheeses</u>
Malva sylvestris	High mallow
Malva verticillata	Cluster mallow
Marrubium vulgare	White hoarhound
Matricaria chamomilla	Wild-camomile; <u>German false-camomile</u>
Matricaria inodora	False-camomile; <u>scentless false-camomile</u>
Matricaria matricarioides	Pineappleweed
Medicago arabica	Spotted bur-clover
Medicago hispida <u>Medicago hispida denticulata</u>	California bur-clover
Medicago lupulina	Black medick; <u>yellow trefoil</u>
Medicago orbicularis	Buttonclover; <u>button bur-clover</u>

Medicago sativa	Alfalfa
Meibomia purpurea	Florida beggarweed; <u>beggarweed</u> ; <u>Cherokee clover</u>
<u>Meibomia tortuosa</u>	
<u>Desmodium tortuosum</u>	
Melilotus sp.	Sweetclover
Melilotus alba	White sweetclover
Melilotus indica	Sourclover; <u>annual yellow sweetclover</u>
Melilotus officinalis	Yellow sweetclover; <u>biennial yellow sweetclover</u>
Melinia minutiflora	Molasses grass
Melissa officinalis	Balm
Mentha sp.	Mint
Mentha arvensis	Field mint
Mentha canadensis	American wild mint
Moldavica sp.	Dragonhead
Moldavica parviflora	American dragonhead
<u>Dracocephalum parviflorum</u>	
Molinia caerulea	Lavender grass
Mollugo verticillata	Carpetweed
Monarda fistulosa	Wildbergamot
<u>Mucuna utilis</u>	Velvetbean
<u>Stizolobium utile</u>	
Muhlenbergia asperifolia	Scratchgrass
<u>Sporobolus asperifolius</u>	
Myosotis sp.	Forget-me-not
Myosotis arvensis	Field forget-me-not
Myosotis scorpioides	True forget-me-not
<u>Nasturtium austriacum</u>	Austrian fieldcress
<u>Radicula austriaca</u>	
Navarretia intertexta	No common name
Navarretia squarrosa	Skunkweed
<u>Nazia racemosa</u>	European burgrass; <u>prickle-grass</u>
<u>Tragus racemosus</u>	
Nepeta cataria	Catnip
Neslia paniculata	Ballmustard
Nicandra physalodes	Apple-of-Peru
<u>Physalodes physalodes</u>	
Nigella sp.	Love-in-a-mist
Nigella damascena	Love-in-a-mist
Nigella sativa	Black-cumin; <u>ragged lady</u>



Norta altissima  
Sisymbrium altissimum

Notholcus lanatus  
Holcus lanatus

Notholcus mollis  
Holcus mollis

Oenothera sp.

Oenothera biennis  
Onagra biennis

Oenothera laciniata  
Raimannia laciniata

Onobrychis viciaefolia  
Onobrychis vulgaris  
Onobrychis sativa

Onopordon acanthium

Ornithopus sativus

Orobanche sp.

Orobanche ramosa

Oryza sativa

Oryzopsis sp.

Oryzopsis hymenoides

Oryzopsis miliacea

Osmorhiza longistylis

Oxalis stricta

Panicularia americana  
Glyceria grandis

Panicularia fluitans  
Glyceria fluitans

Panicularia nervata  
Glyceria striata

Panicum anceps  
Panicum rostratum

Panicum capillare

Panicum capillare occidentale  
Panicum barbipulvinatum

Panicum colonum  
Echinochloa colonum

Panicum dichotomiflorum

Panicum fasciculatum  
Panicum fuscum

Panicum gracile

Tumblemustard

Velvet grass

Softgrass; meadow soft grass; German mesquite grass

Evening-primrose

Evening-primrose

Cutleaf evening-primrose

Sainfoin

Cottonthistle; Scotch thistle

Serradella

Broomrape

Hemp broomrape

Rice

Ricegrass

Indian ricegrass; quincy grass

No common name

Aniseroot; sweet cicely

Yellow oxalis; yellow wood sorrel

American mannagrass; tall mannagrass

Mannagrass

Fowl mannagrass; nerved mannagrass

No common name

Witchgrass

No common name

Jungle-rice

Fall panicum; spreading panicum

Browntop millet

No common name

# SEED LIST\*

<i>Abrus precatorius</i>	Rosary-pea
<i>Abutilon theophrasti</i>	Velvetleaf
<i>Acalypha virginica</i>	Three-seed; <u>three-seeded mercury</u>
<i>Acanthospermum australe</i>	Star-bur; <u>spiny-bur</u>
<i>Achillea millefolium</i>	Common yarrow
<i>Aeschynomene virginica</i>	Northern jointvetch; <u>sensitive joint vetch</u>
<i>Adesmia</i> sp.	No common name
<i>Ageratum</i> sp.	<i>Ageratum</i>
<i>Agoseris</i> sp.	Lambslettuce
<i>Agropyron</i> sp.	Wheatgrass
<i>Agropyron cristatum</i>	Crested wheatgrass
<i>Agropyron pauciflorum</i> <u><i>Agropyron tenerum</i></u>	Slender wheatgrass
<i>Agropyron repens</i>	Quackgrass
<i>Agropyron smithii</i> <u><i>Agropyron occidentale</i></u>	Bluestem; <u>western wheatgrass</u>
<i>Agrostemma githago</i>	Corncockle
<i>Agrostis</i> sp.	Bentgrass
<i>Agrostis alba</i>	Redtop
<i>Agrostis canina</i>	Velvet bent
<i>Agrostis exarata</i>	Spike redtop
<i>Agrostis exarata monolepis</i>	No common name
<i>Agrostis hiemalis</i>	Ticklegrass
<i>Agrostis longiligula</i>	No common name
<i>Agrostis nigra</i>	Black bent; <u>coarse bent</u>
<i>Agrostis palustris</i> <u><i>Agrostis maritima</i></u>	Creeping bent; <u>seaside bent</u> . Also the horticultural strains ( <u>carpet bent</u> ): Washington, Metropolitan, and others
<i>Agrostis spica-venti</i> <u><i>Apera spica-venti</i></u>	Windgrass; <u>silky bent grass</u>
<i>Agrostis stolonifera</i>	No common name
<i>Agrostis tenuis</i>	Colonial bent; <u>Rhode Island bent</u> ; <u>browntop</u>
<i>Agrostis tenuis</i> var.	Astoria bent
<i>Agrostis tenuis aristata</i>	No common name
<i>Agrostis tenuis</i> var.	Highland bent; <u>Oregon bent</u>
<u><i>Aira caespitosa</i></u> <i>Deschampsia caespitosa</i>	Tufted hairgrass

\*Synonyms, or unapproved names, underscored



Aira caryophyllea	Silver hairgrass
<u>Aira flexuosa</u> Deschampsia flexuosa	Crinkled hairgrass; <u>eastern hairgrass</u>
Ajuga sp.	Bugle
Ajuga chamaepitys	Ground bugle
Ajuga reptans	Carpet bugle
Alchemilla sp.	Ladysmantle
Aleurites moluccana	Candlenut
Alhagi pseudalhagi <u>Alhagi camelorum</u>	Camelthorn
Allium vineale	Wild garlic
Allocarya sp.	Scorpionweed
Allocarya californica	No common name
Allocarya hispidula	No common name
Allocarya scouleri	No common name
Alopecurus sp.	Foxtail
Alopecurus geniculatus	Water foxtail; <u>marsh foxtail</u>
Alopecurus myosuroides <u>Alopecurus agrestis</u>	Slender foxtail
Alopecurus pratensis	Meadow foxtail
Alsine graminea <u>Stellaria graminea</u>	Little starwort
Alsine media <u>Stellaria media</u>	Chickweed
Althaea hirsuta	No common name
Alyssum sp.	Alyssum
Alyssum alyssoides	Pale alyssum; <u>yellow alyssum</u>
Amaranthus sp.	Amaranth
Amaranthus blitoides	Spreading amaranth
Amaranthus graecizans	Tumble amaranth
Amaranthus hybridus	Slim amaranth
Amaranthus retroflexus	Redroot amaranth; <u>rough pig weed</u>
Amaranthus spinosus	Spiny amaranth; <u>prickly careless</u> ; <u>thorny careless</u>
Ambrosia sp.	Ragweed
Ambrosia elatior <u>Ambrosia artemisiaefolia</u>	Common ragweed
Ambrosia psilostachya	Western ragweed

Ambrosia trifida	Big ragweed; <u>great ragweed</u>
Ammi visnaga	Toothpickplant
Amsinckia sp.	Fiddleneck
Amsinckia intermedia	Coast fiddleneck
Amorpha canescens	Leadplant
Anagallis arvensis	Red pimpernel
Andropogon sp.	Beardgrass
Andropogon glomeratus	Bushy beardgrass
<u>Andropogon sorghum sudanensis</u>	Sudan grass
<u>Holcus sorghum sudanensis</u>	
<u>Sorghum vulgare sudanense</u>	
Andropogon virginicus	Broomsedge
Anthemis arvensis	Field camomile
Anthemis cotula	Mayweed
Anthemis tinctoria	Yellow camomile
Anthoxanthum sp.	Vernalgrass
Anthoxanthum aristatum	Annual vernalgrass
<u>Anthoxanthum puelii</u>	
Anthoxanthum odoratum	Sweet vernalgrass
Anthriscus sylvestris	Wild chervil
Anthyllis vulneraria	Kidneyvetch
Antirrhinum sp.	Snapdragon
Antirrhinum orontium	Corn snapdragon
Apargia sp.	No common name
Apargia autumnalis	Fall-dandelion
<u>Leontodon autumnalis</u>	
Apargia nudicaulis	Rough hawkbit
<u>Leontodon nudicaulis</u>	
<u>Apera spica-venti</u>	Windgrass; <u>silky bentgrass</u>
<u>Agrostis spica-venti</u>	
Apium ammi	No common name
Apocynum sp.	Dogbane
Apocynum cannabinum	Hemp dogbane; <u>Indian-hemp</u>
Arabidopsis thaliana	Mouse-ear-cress
<u>Stenophragma thaliana</u>	
Arabis sp.	Rockcress
Arabis glabra	Towermustard



<i>Panicum hiens</i> <u><i>Steinchisma hiens</i></u>	No common name
<i>Panicum hillmani</i>	No common name
<i>Panicum lanuginosum</i>	No common name
<i>Panicum maximum</i>	Guinea grass
<i>Panicum miliaceum</i>	Proso; <u>broomcorn millet</u> ; <u>hog millet</u>
<i>Panicum purpurascens</i>	Para grass
<u><i>Panicum rostratum</i></u> <i>Panicum anceps</i>	No common name
<i>Panicum virgatum</i>	Switchgrass; <u>tall smooth panicum</u>
<i>Papaver</i> sp.	Poppy
<i>Papaver dubium</i>	Longpod poppy
<i>Papaver rhoeas</i>	Corn poppy
<i>Papaver somniferum</i>	Opium poppy
<u><i>Parsonsia petiolata</i></u> <i>Cuphea petiolata</i>	Clammy cuphea
<i>Paspalum boscianum</i>	Bull paspalum
<u><i>Paspalum compressum</i></u> <i>Axonopus compressus</i>	Carpet grass
<i>Paspalum dilatatum</i>	Dallis grass
<i>Paspalum distichum</i>	Knotgrass
<i>Paspalum laeve</i>	Field paspalum
<i>Paspalum notatum</i>	Bahia grass
<i>Paspalum setaceum</i>	Slender paspalum
<i>Paspalum urvillei</i> <u><i>Paspalum larranagai</i></u>	Vasey grass
<i>Pastinaca sativa</i>	Parsnip
<i>Pedicularis</i> sp.	Fernleaf
<i>Pennisetum glaucum</i> <u><i>Pennisetum spicatum</i></u>	Pearl millet
<i>Pennisetum purpureum</i>	Napier grass; <u>merker grass</u>
<i>Petalostemum candidum</i>	White prairieclover
<i>Phacelia</i> sp.	Curlybloom
<i>Phalaris</i> sp.	Canary grass
<i>Phalaris angusta</i>	Timothy canary grass
<i>Phalaris arundinacea</i>	Reed canary grass

Phalaris canariensis	Canary grass
Phalaris caroliniana	Carolina canary grass
Phalaris minor	Little canary grass
Phalaris paradoxa	Hidehead canary grass; <u>gnawed canary grass</u>
Phalaris tuberosa <u>"Phalaris bulbosa"</u>	No common name
Phalaris tuberosa stenoptera <u>Phalaris stenoptera</u>	<u>Harding grass</u> ; <u>Peruvian winter grass</u>
Phleum pratense	Timothy
Physalis sp.	Groundcherry
Physalis rotundata	Roundleaf groundcherry
<u>Physalodes physalodes</u> Nicandra physalodes	Apple-of-Peru
Phytolacca americana <u>Phytolacca decandra</u>	Pokeberry
Picris echioides	Oxtongue
Picris hieracioides	Hawkweed picris
Pisum sp.	Pea
Pisum sativum arvense <u>Pisum arvense</u>	Field pea
Pisum sativum	Garden pea
Plantago arenaria	Branching plantain
Plantago aristata	Bottlebrush plantain; <u>bracted plantain</u>
Plantago coronopus	Crowfoot plantain
Plantago elongata	No common name
Plantago lanceolata	Buckhorn plantain
Plantago major	Rippleseed plantain
Plantago ovata	Spogel plantain; <u>blond psyllium</u>
Plantago psyllium	Fleaseed plantain; <u>psyllium</u>
Plantago purshii	Woolly Indianwheat
Plantago rhodosperma	Redseed plantain
Plantago rugelii	Blackseed plantain
Plantago virginica	Paleseed plantain; <u>dwarf plantain</u>
Poa sp.	Bluegrass
Poa annua	Annual bluegrass



Poa arachnifera	Texas bluegrass
Poa bulbosa	Bulbous bluegrass
Poa compressa	Canada bluegrass
Poa nemoralis	Wood bluegrass; <u>wood meadow grass</u>
Poa palustris	Fowl bluegrass
<u>Poa triflora</u>	
Poa pratensis	Kentucky bluegrass
Poa sudetica	No common name
Poa trivialis	Rough bluegrass; <u>rough-stalked meadow grass</u>
<u>Poa triflora</u>	Fowl bluegrass
Poa palustris	
Polygala sp.	Polygala
Polygonum sp.	No common name
Polygonum argyrocoleon	Silversheath knotweed
Polygonum aviculare	Knotweed
Polygonum convolvulus	Cornbind; <u>black bindweed</u>
Polygonum hydropiper	Smartweed
Polygonum kelloggii	No common name
Polygonum lapathifolium	Pale ladysthumb; <u>pale knotweed</u>
Polygonum muhlenbergii	Bigroot ladysthumb; <u>water smartweed</u>
<u>Polygonum emersum</u>	
Polygonum pennsylvanicum	Bigseed ladysthumb; <u>Pennsylvania knotweed</u>
Polygonum persicaria	Ladysthumb
Polygonum punctatum	American smartweed
Polypogon monspeliensis	Rabbitfoot grass
Portulaca oleracea	Purslane
Potentilla sp.	Cinquefoil
Potentilla biennis	No common name
Potentilla canadensis	Oldfield cinquefoil; <u>five finger</u>
Potentilla monspeliensis	Strawberryweed; <u>cinquefoil</u>
Potentilla rivalis	No common name
Prunella vulgaris	Selfheal
Psoralea sp.	Scurf-pea
Psoralea tenuifolia	No common name
Puccinellia nuttalliana	Nuttall alkali-grass; <u>zwadke alkali-grass</u>
<u>Pycnanthemum sp.</u>	Mountain-mint
Koellia sp.	

<u>Pycnanthemum flexuosum</u> <u>Koellia flexuosa</u>	Slender mountain-mint
Radicula sp. <u>Roripa sp.</u>	Marshcress
Radicula austriaca <u>Nasturtium austriacum</u>	Austrian fieldcress
Raimannia laciniata <u>Oenothera laciniata</u>	Cutleaf evening-primrose
Ranunculus sp.	Buttercup
Ranunculus abortivus	Littleleaf crowfoot
Ranunculus acris	Tall buttercup
Ranunculus arvensis	Corn crowfoot
Ranunculus bulbosus	Bulb buttercup
Ranunculus parviflorus	Sticktight crowfoot; <u>small-flowered buttercup</u>
Ranunculus repens	Creeping buttercup
Ranunculus sardous <u>Ranunculus parvulus</u>	Wartseed buttercup; <u>hairy buttercup</u>
Ranunculus sceleratus	Blister crowfoot; <u>celery-leaved crowfoot</u>
Raphanus raphanistrum	Wild radish
Raphanus sativus	Radish
Reseda lutea	Base-rocket; <u>mignonette</u>
Reseda odorata	Mignonette
Richardia scabra <u>Richardsonia scabra</u>	Mexican-clover
Ricinus communis	Castor-bean
Rosa sp.	Rose
Rosa blanda	Meadow rose
Roubieva multifida	Flatweed
Rudbeckia sp.	Coneflower
Rudbeckia amplexicaulis <u>Dracopis amplexicaulis</u>	Clasping coneflower
Rudbeckia hirta	Black-eyed-susan
Rubus sp.	Blackberry
Rumex sp.	No common name
Rumex acetosa	Garden sorrel; <u>sour dock</u>
Rumex acetosella	Sheep sorrel
Rumex conglomeratus	Green dock
Rumex crispus	Curly dock



Rumex mexicanus	No common name
Rumex obtusifolius	Bitter dock
Rumex salicifolius	No common name
Salsola pestifer	Russian-thistle
Salvia sp.	Sage
Salvia lanceaefolia <u>Salvia lanceolata</u>	Lanceleaf sage
Salvia officinalis	Garden sage
Salvia sclarea	Clary; <u>clear-eye</u>
Salvia sylvestris	Pasture sage; <u>wild sage</u>
Sanguisorba sp.	Burnet
Sanguisorba annua	Prairie burnet
Sanguisorba minor <u>Sanguisorba sanguisorba</u>	Little burnet
Sanicula sp.	Sanicle
Sanicula menziesii	Foothill sanicle
Saponaria officinalis	Bouncing-bet
<u>Saponaria vaccaria</u> <u>Vaccaria vaccaria</u> Vaccaria pyramidata	Cowcockle
<u>Sarothra gentianoides</u> Hypericum gentianoides	Pineweed; <u>orange-grass</u>
Saussurea affinis	No common name
<u>Satureja acinos</u> Clinopodium acinos	Basil-thyme
Scabiosa arvensis <u>Knautia arvensis</u>	Field scabiosa
Scirpus sp.	Bulrush
Scleranthus annuus	Knawel; <u>German knotgrass</u>
Scrophularia sp.	Figwort
Scrophularia marilandica	American figwort; <u>Maryland figwort</u>
Scrophularia nodosa	Wood figwort
Secale cereale	Rye
Sedum telephium	Liveforever
Senecio sp.	Groundsel
Senecio vulgaris	Groundsel

Serinia oppositifolia	No common name
Sesamum orientale <u>Sesamum indicum</u>	Sesame
Sesbania emerus <u>Sesbania macrocarpa</u>	Danglepod
Sesuvium sessile	Inland seapurslane; <u>sea purslane</u>
Setaria geniculata <u>Chaetochloa geniculata</u>	Knotroot bristlegrass
Setaria globulifera <u>Chaetochloa globulifera</u>	No common name
Setaria italica <u>Chaetochloa italica</u>	Foxtail millet: German; Hungarian; golden ( <u>common</u> ); and others
Setaria lutescens <u>Chaetochloa lutescens</u>	Yellow bristlegrass; <u>yellow foxtail</u>
Setaria viridis <u>Chaetochloa viridis</u>	Green bristlegrass; <u>green foxtail</u>
Sherardia arvensis	Field madder; <u>blue field madder</u>
Sida spinosa	Spinemallow; <u>spiny sida</u>
Silene anglica	English catchfly
Silene antirrhina	Sleepy catchfly
Silene dichotoma	Clover catchfly; <u>forked catchfly</u>
Silene latifolia <u>Silene vulgaris</u>	Bladder campion
Silene noctiflora	Nightblooming catchfly
Silybum marianum	Milkthistle
<u>Sinapis alba</u> Brassica alba	White mustard
<u>Sinapis arvensis</u> Brassica arvensis	Charlock
<u>Sisymbrium altissimum</u> Norta altissima	Tumblemustard
<u>Sisymbrium canescens</u> Sophia pinnata	Tansymustard
<u>Sisymbrium incisum</u> Sophia incisa	Green tansymustard
<u>Sisymbrium officinale</u> Erysimum officinale	Hedgemustard
Sisyrinchium sp.	Blue-eyed-grass
Soja max <u>Glycine hispida</u>	Soybean
Solanum sp.	Nightshade
Solanum carolinense	Horsenettle
Solanum elaeagnifolium	Trompillo



Solanum nigrum	Black nightshade
Solanum rostratum	Buffalo-bur
Solanum triflorum	Cutleaf nightshade
Solidago sp.	Goldenrod
Solidago canadensis	Canada goldenrod
Sonchus sp.	Sowthistle
Sonchus arvensis	Perennial sowthistle
Sonchus asper	Prickly sowthistle; <u>spiny sowthistle</u>
Sonchus oleraceus	Common sowthistle
Sophia pinnata <u>Sisymbrium canescens</u>	Tansymustard
Sophia incisa <u>Sisymbrium incisum</u>	Green tansymustard
Sorghum halepense <u>Holcus halepensis</u>	Johnson grass
Sorghum virgatum	Tunis grass
Sorghum vulgare <u>Holcus sorghum</u>	Sorghum
Sorghum vulgare sudanense <u>Holcus sorghum sudanensis</u> <u>Andropogon sorghum sudanensis</u>	Sudan grass
Specularia perfoliata <u>Legouzia perfoliata</u>	Venus lookingglass
Spergula arvensis	Corn spurry
Spergula pentandra	Wingseed spurry
<u>Spergularia rubra</u> Tissa rubra	Red sandspurry
Sporobolus sp.	Dropseed
<u>Sporobolus asperifolius</u> Muhlenbergia asperifolia	Scratchgrass
Sporobolus clandestinus	Scratch dropseed; <u>rush grass</u>
Sporobolus cryptandrus	Sand dropseed
Sporobolus neglectus	Puff dropseed; <u>small rush grass</u>
Sporobolus rigens	No common name
Stachys sp.	Betony
Stachys agraria	Shade betony
Stachys annua	Field betony; <u>hedge nettle</u>
Stachys palustris	Marsh betony; <u>hedge nettle</u>
<u>Steinchisma hians</u> Panicum hians	No common name

<u>Stellaria graminea</u> Alsine graminea	Little starwort
<u>Stellaria media</u> Alsine media	Chickweed
<u>Stenophragma thaliana</u> Arabidopsis thaliana	Mouse-ear-cress
Stipa sp.	Needlegrass
Stipa comata	Needle-and-thread; <u>western stipa</u> ; <u>feathergrass</u>
Stipa viridula	Green needlegrass; <u>feathergrass</u>
Stizolobium utile <u>Mucuna utilis</u>	Velvetbean
Swainsona salsula	No common name
<u>Syntherisma sp.</u>	Crabgrass
<u>Syntherisma exile</u> Digitaria exilis	Fundi grass
<u>Syntherisma filiformis</u> Digitaria filiformis	Slender crabgrass; <u>slender finger-grass</u>
<u>Syntherisma ischaemum</u> Digitaria ischaemum	Smooth crabgrass
<u>Syntherisma sanguinalis</u> Digitaria sanguinalis	Crabgrass
<u>Taraxacum erythrospermum</u> Leontodon laevigatum	Redseed dandelion
<u>Taraxacum officinale</u> Leontodon taraxacum	Dandelion
<u>Tecoma radicans</u> Bignonia radicans	Trumpet creeper
Teucrium sp.	Germander
Teucrium canadense	American germander
Teucrium scorodonia	Wood germander
Thalictrum sp.	Meadow rue
Thlaspi arvense	Pennycress; <u>Frenchweed</u>
Thymus serpyllum	Mother-of-thyme
Tissa sp.	Sandspurry
Tissa rubra <u>Spergularia rubra</u>	Red sandspurry
Torilis nodosa <u>Caucalis nodosa</u>	Hedgeparsley; <u>knotted hedge parsley</u>
Tragopogon porrifolius	Oysterplant; <u>vegetable-oyster</u>
Tragopogon pratensis	Buckbeard
Tragus racemosus <u>Nazia racemosa</u>	European burgrass; <u>prickle-grass</u>



Trianthema portulacastrum	Horse-purslane; <u>desert purslane</u>
Tribulus terrestris	Puncturevine
Tricholaena rosea	Natal grass
Trichostema lanceolatum	Bluecurls
<u>Tridens flavus</u>	Purpletop
Triodia flava	
Trifolium angulatum	Crooked clover
Trifolium agrarium	Hop clover
<u>Trifolium aureum</u>	
Trifolium alexandrinum	Berseem; <u>Egyptian clover</u>
Trifolium arvense	Rabbitfoot clover
Trifolium bifidum	Pinole clover
Trifolium carolinianum	Carolina clover
Trifolium dubium	Suckling clover
Trifolium fragiferum	Strawberry clover
Trifolium glomeratum	Cluster clover
Trifolium gracilentum	Pinpoint clover
Trifolium hybridum	Alsike clover
Trifolium incarnatum	Crimson clover
Trifolium microcephalum	Pinhead clover
Trifolium parviflorum	Teasel clover
Trifolium pratense	Red clover
Trifolium procumbens	Mignonette clover; <u>low hop clover</u>
Trifolium repens	White clover
Trifolium resupinatum	Shaftal clover; <u>Persian clover</u>
<u>Trifolium suaveolens</u>	
Trifolium supinum	Cocklebur clover
Trifolium subterraneum	Subterranean clover
Trifolium tridentatum	Tomcat clover
Trigonella foenum-graecum	Fenugreek
Triodia flava	Purpletop
<u>Tridens flavus</u>	
Trisetum sp.	Trisetum
Trisetum flavescens	Yellow trisetum; <u>yellow oatgrass</u>
<u>Avena flavescens</u>	
Triticum aestivum	Wheat
<u>Triticum vulgare</u>	
<u>Triticum sativum</u>	

Urtica sp.	Nettle
Urtica dioica	Big nettle; <u>stinging nettle</u>
Urtica gracilis	Narrowleaf nettle; <u>slender nettle</u>
Vaccaria pyramidata Vaccaria vaccaria Saponaria vaccaria	Cowcockle
Valerianella sp.	Cornsalad
Valerianella dentata	Toothed cornsalad
Valerianella eriocarpa	Italian cornsalad
Valerianella locusta	Cornsalad
Verbascum sp.	Mullein
Verbascum blattaria	Moth mullein
Verbascum phlomoides	Clasping mullein
Verbascum thapsus	Flannel mullein
Verbena sp.	Vervain
Verbena angustifolia	Narrowleaf vervain
Verbena hastata	Blue vervain
Verbena officinalis	Vervain
Verbena stricta	Hoary vervain
Verbena urticifolia	White vervain
Vernonia sp.	Ironweed
Vernonia noveboracensis	Coast ironweed
Veronica sp.	Speedwell
Veronica agrestis	Field speedwell
Veronica arvensis	Corn speedwell
Veronica hederacifolia	Ivyleaf speedwell
Veronica officinalis	Male speedwell
Veronica peregrina	Purslane speedwell
Veronica serpyllifolia	Thymeleaf speedwell
Vicia sp.	Vetch
Vicia angustifolia	Narrowleaf vetch
Vicia atropurpurea	Purple vetch
Vicia cracca	Bird vetch
Vicia dasycarpa	Woollypod vetch
Vicia ervilia	Bitter vetch



<i>Vicia faba</i>	Broadbean
<i>Vicia gracilis</i>	Slender vetch
<i>Vicia grandiflora</i>	No common name
<i>Vicia hirsuta</i>	Tiny vetch
<i>Vicia lutea</i>	Yellow vetch
<i>Vicia monantha</i>	Monantha vetch
<i>Vicia pannonica</i>	Hungarian vetch
<i>Vicia sativa</i>	Common vetch
<i>Vicia tetrasperma</i>	Fourseed vetch
<i>Vicia villosa</i>	Hairy vetch
<i>Vigna sinensis</i>	Cowpea
<i>Viola tricolor</i>	Pansy
<u>Weingartneria canescens</u> Corynephorus canescens	Club-awn
<i>Xanthium sp.</i>	Cocklebur
<del>Xanthium</del> <i>Xanthium spinosum</i>	Spiny cocklebur
<i>Zoysia japonica</i>	Japanese lawn grass
<i>Zoysia matrella</i> <u><i>Zoysia pungens</i></u>	Manila grass
<i>Zoysia tenuifolia</i> <u><i>Osterdamia tenuifolia</i></u>	Mascarene grass







PHOTOGRAPHS  
of DRAWINGS of  
SEEDS

THE MORE IMPORTANT FORAGE-PLANT SEEDS AND  
INCIDENTAL SEEDS COMMONLY FOUND WITH THEM

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Agrostis spica-venti		2	Bassia hyssopifolia		5
Agrostis tenuis		2	Berteroa incana		7
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Alsine graminea		6	Bromus mollis		3
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<i>Echium vulgare</i>		12	<i>Lithospermum arvense</i>		12
<i>Eleocharis obtusa</i>		4	<i>Lobelia inflata</i>		14
<i>Eleocharis tenuis</i>		4	<i>Lolium multiflorum</i>		3
<i>Epilobium panipulatum</i>		11	<i>Lolium perenne</i>		3
<i>Epilobium</i> sp.		11	<i>Lolium temulentum</i>		3
<i>Eragrostis cilianensis</i>		2	<i>Lotus americanus</i>		8
<i>Erechtites hieracifolia</i>		15	<i>Lotus corniculatus</i>		8
<i>Erigeron canadensis</i>		15	<i>Ludwigia alternifolia</i>		11
<i>Erodium cicutarium</i>		10	<i>Lychnis alba</i>		5
<i>Eruca sativa</i>		7	<i>Lycopus virginicus</i>		13
<i>Erysimum officinale</i>		7	<i>Lythrum hyssopifolia</i>		11
<i>Euphorbia maculata</i>		10	<i>Madia sativa</i>		15
<i>Euphorbia preslii</i>		10	<i>Malva parviflora</i>		10
<i>Euphrasia</i> sp.		13	<i>Malva rotundifolia</i>		10
<i>Festuca elatior arundinacea</i>		3	<i>Marrubium vulgare</i>		12
<i>Festuca elatior</i>		3	<i>Matricaria inodora</i>		15
<i>Festuca myuros</i>		3	<i>Medicago arabica</i>		8
<i>Fimbristylis diphylla</i>		4	<i>Medicago hispida</i>		8
<i>Fimbristylis autumnalis</i>		4	<i>Medicago lupulina</i>		8
<i>Galeopsis ladanum</i>		12	<i>Medicago sativa</i>		8
<i>Galeopsis tetrahit</i>		12	<i>Melilotus alba</i>		9
<i>Galium aparine</i>		13	<i>Melilotus indica</i>		9
<i>Geranium carolinianum</i>		10	<i>Melilotus officinalis</i>		9
<i>Geranium columbinum</i>		10	<i>Mentha arvensis</i>		13
<i>Geranium dissectum</i>		10	<i>Moldavica parviflora</i>		12
<i>Geranium molle</i>		10	<i>Molinia coerules</i>		2
<i>Geranium pusillum</i>		10	<i>Myosotis arvensis</i>		12



Nepeta cataria	Plate No.	12	Scrophularia marilandica	Plate No.	13
Neslia paniculata		7	Setaria italica		1
Norta altissima		7	Setaria lutescens		1
Oenothera biennis		11	Setaria viridis		1
Onobrychis viciaefolia		10	Sherardia arvensis		13
Ornithopus sativus		10	Sida spinosa		10
Oxalis stricta		10	Silene anglica		5
Panicum capillare		1	Silene antirrhina		5
Panicum dichotomiflorum		1	Silene dichotoma		5
Panicum sp.		1	Silene latifolia		5
Panicum miliaceum		1	Silene noctiflora		5
Panicum virgatum		1	Solanum carolinense		13
Papaver dubium		6	Solanum rostratum		13
Papaver rhoeas		6	Solanum nigrum		13
Papaver somniferum		6	Sonchus arvensis		14
Papaver spp.		6	Sonchus asper		14
Paspalum dilatatum		1	Sonchus oleraceus		14
Paspalum laeve		1	Sorghum halepense		1
Paspalum setaceum		1	Sorghum vulgare sudanense		1
Phleum pratense		1	Specularia perfoliata		14
Picris echioides		14	Spergula arvensis		6
Picris hieracioides		14	Spergula pentandra		6
Pisum sativum arvense		9	Sporobolus clandestinus		2
Pisum sativum		9	Sporobolus cryptandrus		2
Plantago aristata		13	Sporobolus neglectus		2
Plantago lanceolata		13	Stachys annua		12
Plantago major		13	Stachys palustris		12
Plantago rugelii		13	Swainsona salsula		10
Plantago virginica		13	Teucrium canadense		12
Poa annua		3	Thalictrum sp.		6
Poa bulbosa		3	Thlaspi arvense		7
Poa compressa		3	Torilis nodosa		11
Poa nemoralis		3	Tragopogon pratensis		14
Poa pratensis		3	Trianthema portulacastrum		5
Poa trivialis		3	Trifolium agrarium		8
Polygonum argyrocoleon		4	Trifolium angulatum		8
Polygonum aviculare		4	Trifolium arvense		8
Polygonum convolvulus		5	Trifolium dubium		8
Polygonum hydropiper		4	Trifolium hybridum		8
Polygonum lapathifolium		4	Trifolium incarnatum		8
Polygonum pennsylvanicum		4	Trifolium parviflorum		8
Polygonum persicaria		5	Trifolium pratense		8
Potentilla canadensis		8	Trifolium procumbens		8
Potentilla monspeliensis		8	Trifolium repens		8
Prunella vulgaris		12	Trigonella foenum-graecum		10
Raimannia laciniata		11	Trisetum flavescens		2
Ranunculus acris		6	Urtica dioica		4
Ranunculus parviflorus		6	Vaccaria pyramidata		5
Ranunculus repens		6	Valerianella dentata		14
Ranunculus sardous		6	Valerianella eriocarpa		14
Raphanus raphanistrum		7	Valerianella locusta		14
Reseda lutea		8	Verbascum thapsus		13
Rosa sp.		8	Verbena hastata		12
Rubus sp.		8	Verbena officinalis		12
Rudbeckia hirta		15	Verbena stricta		12
Rumex acetosa		4	Verbena urticaefolia		12
Rumex acetosella		4	Veronica arvensis		13
Rumex conglomeratus		4	Veronica agrestis		13
Rumex crispus		4	Veronica peregrina		13
Rumex obtusifolius		4	Vicia angustifolia		9
Salsola pestifer		5	Vicia cracca		9
Salvia lanceaefolia		12	Vicia gracilis		9
Salvia sclarea		12	Vicia grandiflora		9
Salvia sp.		12	Vicia hirsuta		9
Salvia sylvestris		12	Vicia lutea		9
Sanguisorba minor		8	Vicia sativa		9
Sanguisorba sp.		8	Vicia sp.		9
Scabiosa arvensis		14	Vicia tetrasperma		9
Scirpus spp.		4	Vicia villosa		9
Scleranthus annuus		6	Viola tricolor		11

PLATE 1\*

1. *Sorghum vulgare sudanense* (Piper) Hitchc. Sudan grass  
Holcus sorghum sudanensis Piper
2. *Sorghum halepense* (L.) Pers. Johnson grass  
Holcus halepensis L.
3. *Paspalum setaceum* Michx. Slender paspalum
4. *Paspalum laeve* Michx. Field paspalum
5. *Paspalum dilatatum* Poir. Dallis grass
6. *Digitaria sanguinalis* (L.) Scop. Crabgrass  
Syntherisma sanguinalis (L.) Dulac.
7. *Digitaria ischaemum* (Schreb.) Muhl. Smooth crabgrass  
Syntherisma ischaemum (Schreb.) Nash
8. *Panicum capillare* L. Witchgrass
9. *Panicum dichotomiflorum* Michx. Fall panicum
10. *Panicum miliaceum* L. Proso; broomcorn millet; hog millet
11. *Panicum virgatum* L. Switchgrass
12. *Panicum* sp. No common name  
"Panicum lanuginosum"
13. *Echinochloa crusgalli* (L.) Beauv. Barnyard grass
14. *Echinochloa crusgalli frumentacea* (Roxb.) Wight. Japanese millet  
Echinochloa frumentacea Link.
15. *Setaria lutescens* (Weig.) Hubb. Yellow bristlegrass; yellow foxtail  
Chaetochloa lutescens (Weig.) Stuntz
16. *Setaria viridis* (L.) Beauv. Green bristlegrass; green foxtail  
Chaetochloa viridis (L.) Scribn.
17. *Setaria italica* (L.) Beauv. var. Hungarian millet  
Chaetochloa italica (L.) Scribn.
18. *Setaria italica* (L.) Beauv. var. Golden millet; common millet  
Chaetochloa italica (L.) Scribn.
19. *Setaria italica* (L.) Beauv. var. German millet  
Chaetochloa italica (L.) Scribn.
20. *Cenchrus pauciflorus* Benth. Field sandbur
21. *Dactylis glomerata* L. Orchard grass
22. *Cynosurus cristatus* L. Crested dogtail
23. *Aristida dichotoma* Michx. Poverty three-awn
24. *Phleum pratense* L. Timothy

\*Synonyms, or unapproved  
names, underscored



PLATE 1



PLATE 2\*

1. *Alopecurus pratensis* L. Meadow foxtail
2. *Alopecurus geniculatus* L. Water foxtail
3. *Alopecurus myosuroides* Huds. Slender foxtail  
*Alopecurus agrestis* L.
4. *Sporobolus cryptandrus* (Torr.) Gray Sand dropseed
5. *Sporobolus clandestinus* (Spreng.) Hitchc. Scratch dropseed
6. *Sporobolus neglectus* Nash Puff dropseed
7. *Agrostis alba* L. Redtop
8. *Agrostis tenuis* Sibth. Colonial bent; Rhode Island bent; browntop  
*Agrostis vulgaris* With.
9. *Agrostis canina* L. Velvet bent
10. *Agrostis spica-venti* L. Windgrass  
*Apera spica-venti* Beauv.
11. *Corynephorus canescens* (L.) Beauv. Club-awn  
*Weingartneria canescens* (L.) Bernh.
12. *Holcus lanatus* L. Velvet grass  
*Notholcus lanatus* (L.) Nash
13. *Holcus mollis* L. Softgrass  
*Notholcus mollis* (L.) Hitchc.
14. *Aira caryophyllea* L. Silver hairgrass
15. *Deschampsia flexuosa* (L.) Trin. Crinkled hairgrass
16. *Deschampsia caespitosa* (L.) Beauv. Tufted hairgrass
17. *Trisetum flavescens* (L.) Beauv. Yellow trisetum  
*Avena flavescens* L.
18. *Avena fatua* L. Wild oat
19. *Arrhenatherum elatius* (L.) Mert. & Koch Tall oatgrass
20. *Danthonia spicata* (L.) Beauv. Poverty oatgrass
21. *Cynodon dactylon* (L.) Pers. Bermuda grass  
*Capriola dactylon* (L.) Kuntze
22. *Molinia coerulea* (L.) Moench. Lavender grass
23. *Eragrostis cilianensis* (All.) Link Stinkgrass
24. *Distichlis stricta* (Torr.) Rydb. Desert saltgrass

\*Synonyms, or unapproved names, underscored



PLATE 2



*Alopecurus pratensis*



*Alopecurus geniculatus*



*Alopecurus myosuroides*



*Sporobolus cryptandrus*



*Sporobolus clandestinus*



*Sporobolus neglectus*



*Agrostis alba*



*Agrostis tenuis*



*Agrostis canina*



*Agrostis spica-venti*



*Corynephorus canescens*



*Holcus lanatus*



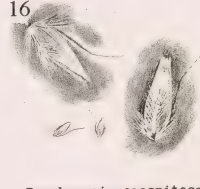
*Holcus mollis*



*Aira caryophylla*



*Deschampsia flexuosa*



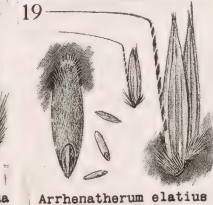
*Deschampsia caespitosa*



*Trisetum flavescens*



*Avena fatua*



*Arrhenatherum elatius*



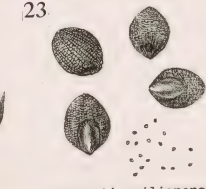
*Danthonia spicata*



*Cynodon dactylon*



*Molinia coerulea*



*Eragrostis cilianensis*



*Distichlis stricta*

PLATE 3\*

1. *Anthoxanthum odoratum* L. Sweet vernalgrass
2. *Anthoxanthum aristatum* Boiss. Annual vernalgrass  
*Anthoxanthum puellii* Lecoq & Lamotte
3. *Poa annua* L. Annual bluegrass
4. *Poa compressa* L. Canada bluegrass
5. *Poa pratensis* L. Kentucky bluegrass
6. *Poa trivialis* L. Rough bluegrass; rough-stalked meadow grass
7. *Poa nemoralis* L. Wood bluegrass; wood meadow grass
8. *Poa bulbosa* L. Bulbous bluegrass
9. *Glyceria striata* (Lam.) Hitchc. Fowl mannagrass  
*Panicularia nervata* (Willd.) Kuntze
10. *Glyceria grandis* S. Wats. American mannagrass  
*Panicularia americana* (Torr.) MacM.
11. *Festuca myuros* L. Rattail fescue
12. *Festuca elatior* L. Meadow fescue  
*Festuca elatior pratensis* (Huds.) A. Gray
13. *Festuca elatior arundinacea* (Schreb.) Wimm. Reed fescue  
*Festuca arundinacea* Schreb.
14. *Bromus inermis* Leyss. Smooth brome; awnless brome grass
15. *Bromus tectorum* L. Downy chess
16. *Bromus mollis* L. Soft chess  
"*Bromus hordeaceus*"
17. *Bromus secalinus* L. Chess; cheat
18. *Bromus racemosus* L. Smooth chess
19. *Lolium perenne* L. Perennial ryegrass; English ryegrass
20. *Lolium multiflorum* Lam. Italian ryegrass
21. *Lolium temulentum* L. Darnel
22. *Agropyron repens* (L.) Beauv. Quackgrass
23. *Agropyron pauciflorum* (Schwein.) Hitchc. Slender wheatgrass  
*Agropyron tenerum* Vasey
24. *Agropyron smithii* Rydb. Bluestem; western wheat grass

\*Synonyms, or unapproved names, underscored



# PLATE 3

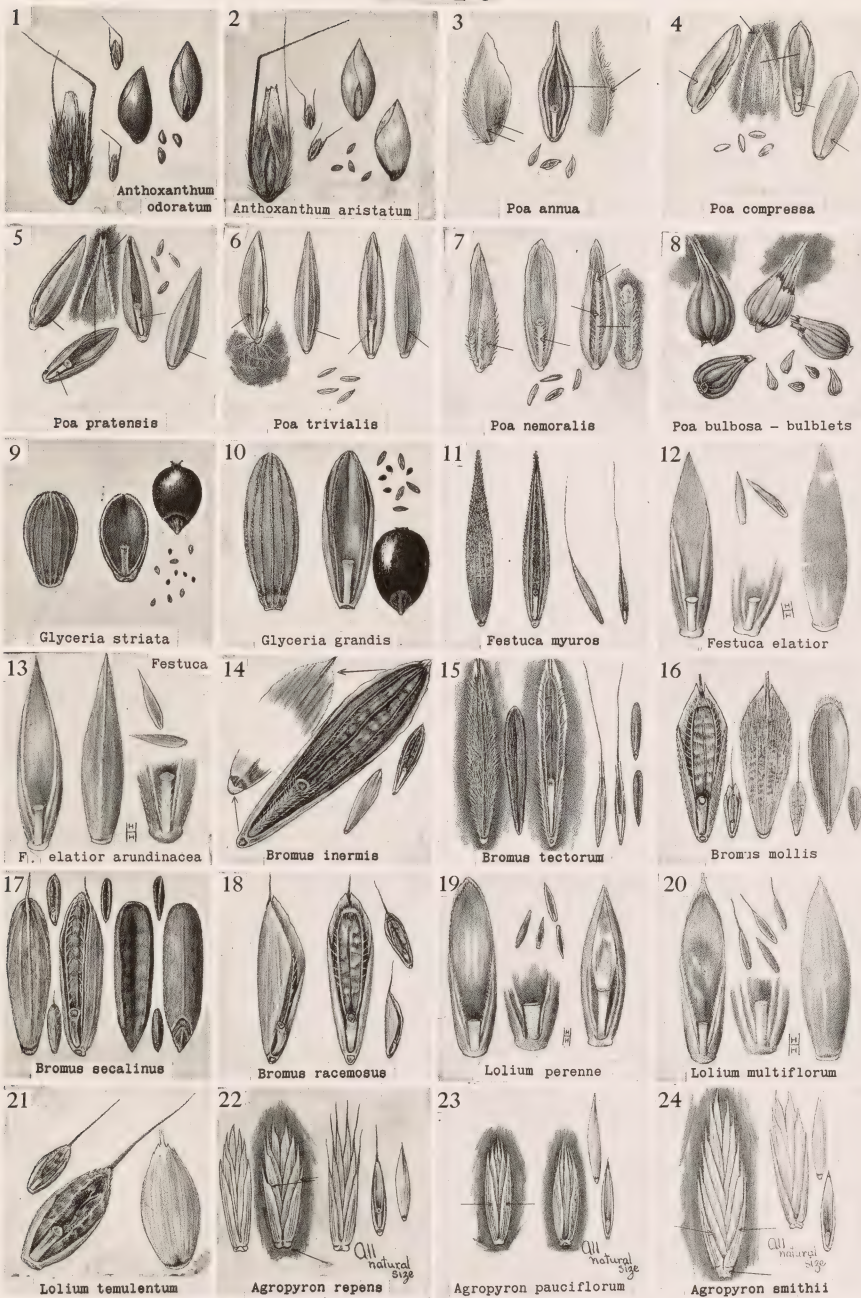


PLATE 4\*

1. *Cyperus rotundus* L. Nutgrass
2. *Kyllinga* sp. No common name
3. *Eleocharis tenuis* (Willd.) Schult. Slender spikerush
4. *Eleocharis obtusa* (Willd.) Schult. Blunt spikerush
5. *Fimbristylis diphylla* (Retz.) Vahl No common name  
*Fimbristylis laxa* Vahl
6. *Fimbristylis autumnalis* (L.) Roem. & Schult. No common name
7. *Scirpus* sp. Bulrush
8. *Scirpus* sp. Bulrush
9. *Carex* spp. Sedge
10. *Juncus tenuis* Willd. Path rush
11. *Juncoides campestre* (L.) Kuntze Field woodrush  
*Luzula campestris* (L.) DC.
12. *Juncoides nemorosum* (Pollich) Kuntze Forest woodrush  
*Luzula nemorosa* (Pollich) E. Mey.
13. *Allium vineale* L. Wild garlic
14. *Urtica dioica* L. Big nettle; stinging nettle
15. *Rumex crispus* L. Curly dock
16. *Rumex obtusifolius* L. Bitter dock
17. *Rumex conglomeratus* Murr. Green dock
18. *Rumex acetosa* L. Garden sorrel; sour dock
19. *Rumex acetosella* L. Sheep sorrel
20. *Polygonum argyrocoleon* Steudel Silversheath knotweed
21. *Polygonum aviculare* L. Knotweed
22. *Polygonum pensylvanicum* L. Bigseed ladysthumb
23. *Polygonum lapathifolium* L. Pale ladysthumb
24. *Polygonum hydropiper* L. Smartweed

\*Synonyms, or unapproved names, underscored



PLATE 4



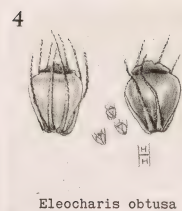
*Cyperus rotundus*



*Kyllinga* sp.



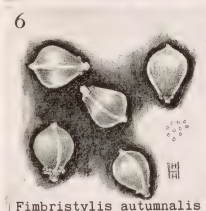
*Eleocharis tenuis*



*Eleocharis obtusa*



*Fimbristylis diphylla*



*Fimbristylis autumnalis*



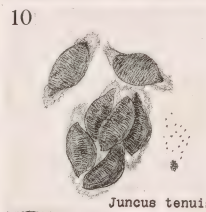
*Scirpus* sp.



*Scirpus* sp.



*Carex* spp.



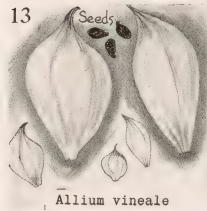
*Juncus tenuis*



*Juncoides campestre*



*Juncoides nemorosum*



*Allium vineale*



*Urtica dioica*



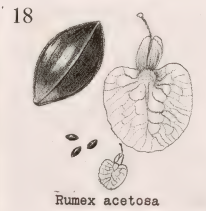
*Rumex crispus*



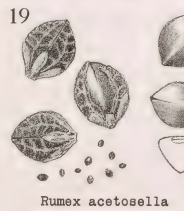
*Rumex obtusifolius*



*Rumex conglomeratus*



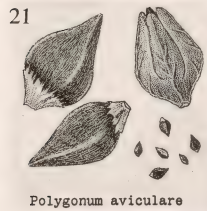
*Rumex acetosa*



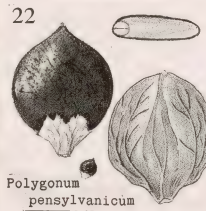
*Rumex acetosella*



*Polygonum argyrocoleon*



*Polygonum aviculare*



*Polygonum pennsylvanicum*



*Polygonum lapathifolium*



*Polygonum hydropiper*

PLATE 5\*

1. *Polygonum persicaria* L. Ladvsthumb
2. *Polygonum convolvulus* L. Cornbind; black bindweed
3. *Chenopodium album* L. Lambsquarters
4. *Chenopodium berlandieri* Moq. Pitseed goosefoot
5. *Chenopodium leptophyllum* Nutt. Narrowleaf goosefoot
6. *Chenopodium murale* L. Nettleleaf goosefoot
7. *Atriplex hastata* L. Fat-hen; saltbush
8. *Atriplex truncata* (Torr.) A. Gray Wedgescale orach; saltbush
9. *Dondia depressa* Seepweed  
*Suaeda* sp.
10. *Salsola pestifer* A. Nels. Russian-thistle
11. *Axyris amaranthoides* L. Russian-pigweed
12. *Bassia hyssopifolia* (Pall.) Kuntze Fivehook bassia
13. *Amaranthus retroflexus* L. Redroot amaranth; rough pigweed  
*Amaranthus graecizans* L. Tumble amaranth
14. *Amaranthus blitoides* S. Wats. Spreading amaranth
15. *Trianthema portulacastrum* L. Horse-purslane
16. *Agrostemma githago* L. Corncockle
17. *Silene latifolia* (Mill.) Britten & Rendle. Bladder campion
18. *Silene dichotoma* Ehrh. Clover catchfly; forked catchfly
19. *Silene antirrhina* L. Sleepy catchfly
20. *Silene noctiflora* L. Nightblooming catchfly
21. *Silene anglica* L. English catchfly
22. *Lychnis alba* Mill. Evening campion; white campion
23. *Vaccaria pyramidata* Moench Cowcockle  
*Saponaria vaccaria* L.
24. *Dianthus armeria* L. Deptford pink

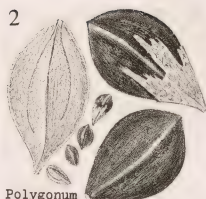
\*Synonyms, or unapproved names, underscored



PLATE 5



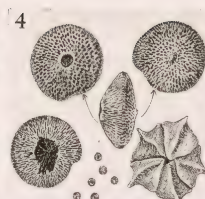
*Polygonum persicaria*



*Polygonum convolvulus*



*Chenopodium album*



*Chenopodium berlandieri*



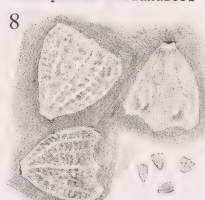
*Chenopodium leptophyllum*



*Chenopodium murale*



*Atriplex hastata*



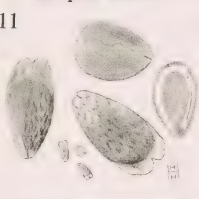
*Atriplex truncata*



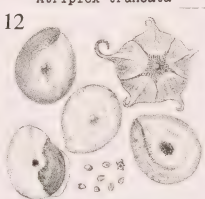
*Dondia depressa*



*Salsola postifer*



*Axyris amaranthoides*



*Bassia hyssopifolia*



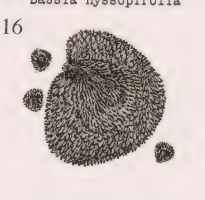
*Amaranthus retroflexus*



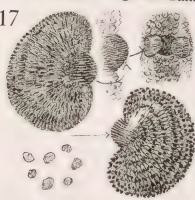
*Amaranthus blitoides*



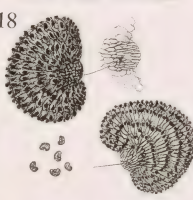
*Trianthema portulacastrum*



*Agrostemma githago*



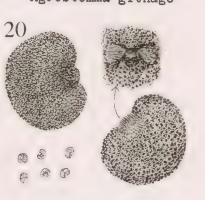
*Silene latifolia*



*Silene dichotoma*



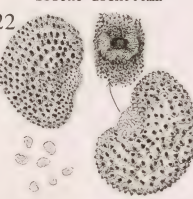
*Silene antirrhina*



*Silene noctiflora*



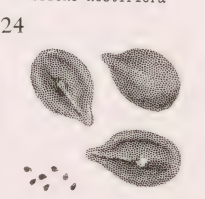
*Silene anglica*



*Lychnis alba*



*Vaccaria pyramidata*



*Dianthus armeria*

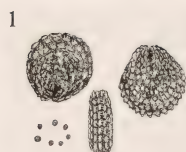
PLATE 6\*

1. *Alsine media* L. Chickweed  
*Stellaria media* (L.) Cyrill.
2. *Alsine graminea* (L.) Britton Little starwort  
*Stellaria graminea* L.
3. *Cerastium vulgatum* L. Big mouse-ear; mouse-ear chickweed
4. *Arenaria serpyllifolia* L. Thymeleaf sandwort
5. *Spergula arvensis* L. Corn spurry
6. *Spergula pentandra* L. Wingseed spurry
7. *Scleranthus annuus* L. Knawel
8. *Delphinium consolida* L. Field larkspur
9. *Ranunculus acris* L. Tall buttercup
10. *Ranunculus repens* L. Creeping buttercup
11. *Ranunculus sardous* Crantz Wartseed buttercup  
*Ranunculus parvulus* L.
12. *Ranunculus parviflorus* L. Sticktight crowfoot
13. *Thalictrum* sp. Meadowrue
14. *Papaver somniferum* L. Opium poppy
15. *Papaver dubium* L. Longpod poppy  
*Papaver rhoeas* L. Corn poppy
16. *Papaver* sp. Poppy
17. *Papaver* sp. Poppy
18. *Glaucium corniculatum* (L.) Curtis Sea-poppy
19. *Lepidium virginicum* L. American peppergrass
20. *Lepidium densiflorum* Schrad. Prairie peppergrass  
"*Lepidium apetalum*"
21. *Lepidium campestre* (L.) R. Br. Field peppergrass
22. *Lepidium draba* L. Perennial peppergrass; hoary cress
23. *Lepidium repens* (Schrenk) Boiss. Lens peppergrass
24. *Hymenophyssa pubescens* C. A. Mey. Ballcress

\*Synonyms, or unapproved names, underscored



# PLATE 6



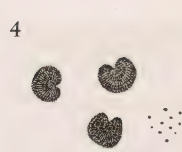
*Alsine media*



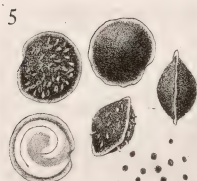
*Alsine graminea*



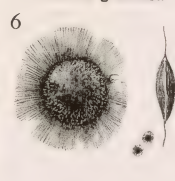
*Cerastium vulgatum*



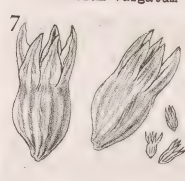
*Arenaria serpyllifolia*



*Spergula arvensis*



*Spergula pentandra*



*Scleranthus annuus*



*Delphinium consolida*



*Ranunculus acris*



*Ranunculus repens*



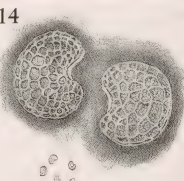
*Ranunculus sardous*



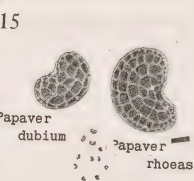
*Ranunculus parviflorus*



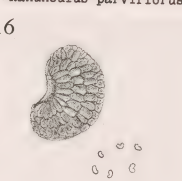
*Thalictrum* sp.



*Papaver somniferum*



*Papaver dubium* *Papaver rhoeas*



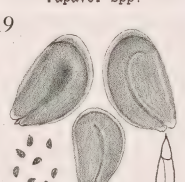
*Papaver* sp.



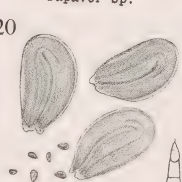
*Papaver* sp.



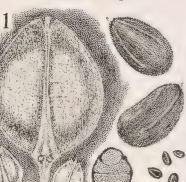
*Glaucium corniculatum*



*Lepidium virginicum*



*Lepidium densiflorum*



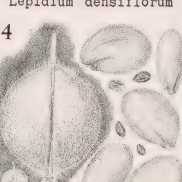
*Lepidium campestre*



*Lepidium draba*



*Lepidium repens*



*Hymenophyllum pubescens*

PLATE 7\*

1. *Thlaspi arvense* L. Pennycress
2. *Norta altissima* (L.) Britton Tumblemustard  
*Sisymbrium altissimum* L.
3. *Erysimum officinale* L. Hedgemustard  
*Sisymbrium officinale* (L.) Scop.
4. *Brassica nigra* (L.) Koch Black mustard
5. *Brassica juncea* (L.) Coss. India mustard
6. *Brassica napus* L. Winter rape
7. *Brassica napus* L. Oilseed rape
8. *Brassica rapa* L. var. Turnip rape
9. *Brassica campestris* L. Bird rape
10. *Brassica arvensis* (L.) Kuntze Charlock  
*Sinapis arvensis* L.
11. *Raphanus raphanistrum* L. Wild radish
12. *Campe barbarea* (L.) W. F. Wight Bitter wintercress  
*Barbarea vulgaris* R. Br.
13. *Campe verna* (Mill.) Heller Early wintercress  
*Barbarea verna* (Mill.) Asch.
14. *Bursa bursa-pastoris* (L.) Britton Shepherds-purse  
*Capsella bursa-pastoris* (L.) Medic.
15. *Camelina sativa* (L.) Crantz Bigseed false-flax
16. *Camelina dentata* (Willd.) Pers. Flatseed false-flax
17. *Camelina microcarpa* Andrz. Littleseed false-flax
18. *Neslia paniculata* (L.) Desv. Ballmustard
19. *Arabis glabra* (L.) Bernh. Towermustard
20. *Cheirinia cheiranthoides* (L.) Link Treacle-mustard  
*Erysimum cheiranthoides* L.
21. *Alyssum alyssoides* L. Pale alyssum
22. *Berteroa incana* (L.) DC. Hoary alyssum
23. *Eruca sativa* Mill. Salad-rocket
24. *Conringia orientalis* (L.) Dumort. Hares-ear-mustard

\*Synonyms, or unapproved names, underscored



# PLATE 7



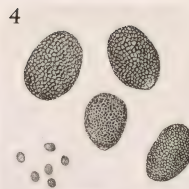
*Thlaspi arvense*



*Norta altissima*



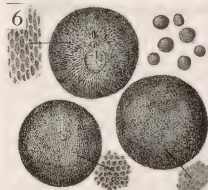
*Erysimum officinale*



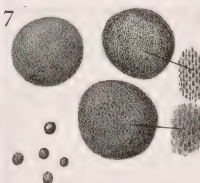
*Brassica nigra*



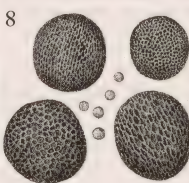
*Brassica juncea*



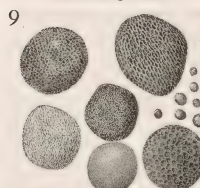
*Brassica napus*



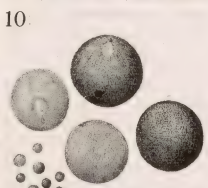
*Brassica napus*



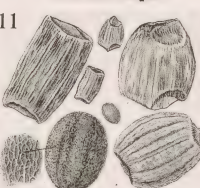
*Brassica rapa var.*



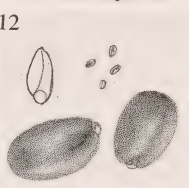
*Brassica campestris*



*Brassica arvensis*



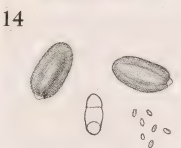
*Raphanus raphanistrum*



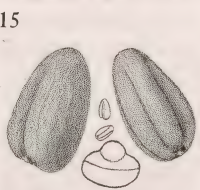
*Campe barbarea*



*Campe verna*



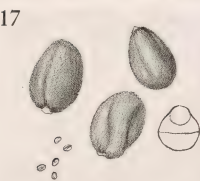
*Bursa bursa-pastoris*



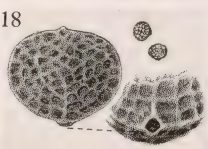
*Camelina sativa*



*Camelina dentata*



*Camelina microcarpa*



*Neslia paniculata*



*Arabis glabra*



*Cheirinia cheiranthoides*



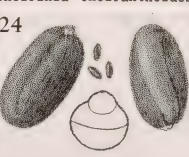
*Alyssum alyssoides*



*Berteroa incana*



*Eruca sativa*



*Conringia orientalis*

PLATE 8\*

1. *Reseda lutea* L. Base-rocket
2. *Rubus* sp. Blackberry
3. *Potentilla monspeliensis* L. Strawberryweed
4. *Potentilla canadensis* L. Oldfield cinquefoil
5. *Sanguisorba minor* Scop. Little burnet
6. *Sanguisorba* sp. Burnet
7. *Geum* sp. Avens
8. *Rosa* sp. Rose
9. *Medicago sativa* L. Alfalfa
10. *Medicago lupulina* L. Black medick; yellow trefoil
11. *Medicago hispida* Gaertn. California bur-clover  
"Medicago hispida denticulata"
12. *Medicago arabica* (L.) Huds. Spotted bur-clover
13. *Trifolium repens* L. White clover
14. *Trifolium pratense* L. Red clover
15. *Trifolium hybridum* L. Alsike clover
16. *Trifolium parviflorum* Ehrh. Teasel clover
17. *Trifolium angulatum* Waldst. & Kit. Crooked clover
18. *Trifolium incarnatum* L. Crimson clover
19. *Trifolium arvense* L. Rabbitfoot clover
20. *Trifolium dubium* Sibth. Suckling clover
21. *Trifolium procumbens* L. Mignonette clover
22. *Trifolium agrarium* L. Hop clover
23. *Lotus corniculatus* L. Birdsfoot trefoil
24. *Lotus americanus* (Nutt.) Bisch. Deervetch  
Hosackia americana (Nutt.) Piper

\*Synonyms, or unapproved names, underscored



PLATE 8



*Reseda lutea*



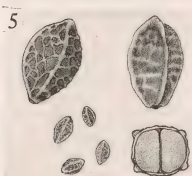
*Rubus* sp.



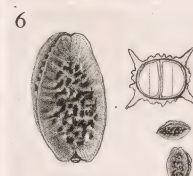
*Potentilla monspeliensis*



*Potentilla canadensis*



*Sanguisorba minor*



*Sanguisorba* sp.



*Geum* sp.



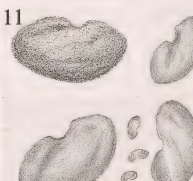
*Rosa* sp.



*Medicago sativa*



*Medicago lupulina*



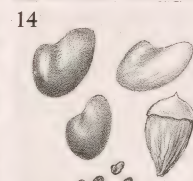
*Medicago hispida*



*Medicago arabica*



*Trifolium repens*



*Trifolium pratense*



*Trifolium hybridum*



*Trifolium parviflorum*



*Trifolium angulatum*



*Trifolium incarnatum*



*Trifolium arvense*



*Trifolium dubium*



*Trifolium procumbens*



*Trifolium agrarium*



*Lotus corniculatus*



*Lotus americanus*

PLATE 9\*

1. *Melilotus alba* Desr. White sweetclover
2. *Melilotus officinalis* (L.) Lam. Yellow sweetclover; biennial yellow sweet clover
3. *Melilotus indica* (L.) All. Sourclover; annual yellow sweet clover
4. *Anthyllis vulneraria* L. Kidneyvetch
5. *Coronilla varia* L. Crownvetch
6. *Lespedeza striata* (Thumb.) Hook. & Arn. Common lespedeza
7. *Vicia villosa* Roth Hairy vetch
8. *Vicia angustifolia* (L.) Reichard Narrowleaf vetch
9. *Vicia angustifolia* (L.) Reichard Narrowleaf vetch
10. *Vicia sativa* L. Common vetch
11. *Vicia sativa* L. Common vetch
12. *Vicia sativa* L. Pearl vetch
13. *Vicia* sp. No common name
14. *Vicia lutea* L. Yellow vetch
15. *Vicia hirsuta* (L.) S. F. Gray Tiny vetch
16. *Vicia grandiflora* Scop. No common name
17. *Vicia tetrasperma* (L.) Moench Fourseed vetch
18. *Vicia cracca* L. Bird vetch
19. *Vicia gracilis* Loisel. Slender vetch
20. *Lathyrus tuberosus* L. Groundnut pea
21. *Lathyrus hirsutus* L. Rough pea
22. *Lathyrus aphaca* L. Yellow pea
23. *Pisum sativum arvense* (L.) Poir. Field pea  
*Pisum arvense* L.
24. *Pisum sativum* L. Garden pea

\*Synonyms, or unapproved names, underscored



PLATE 9

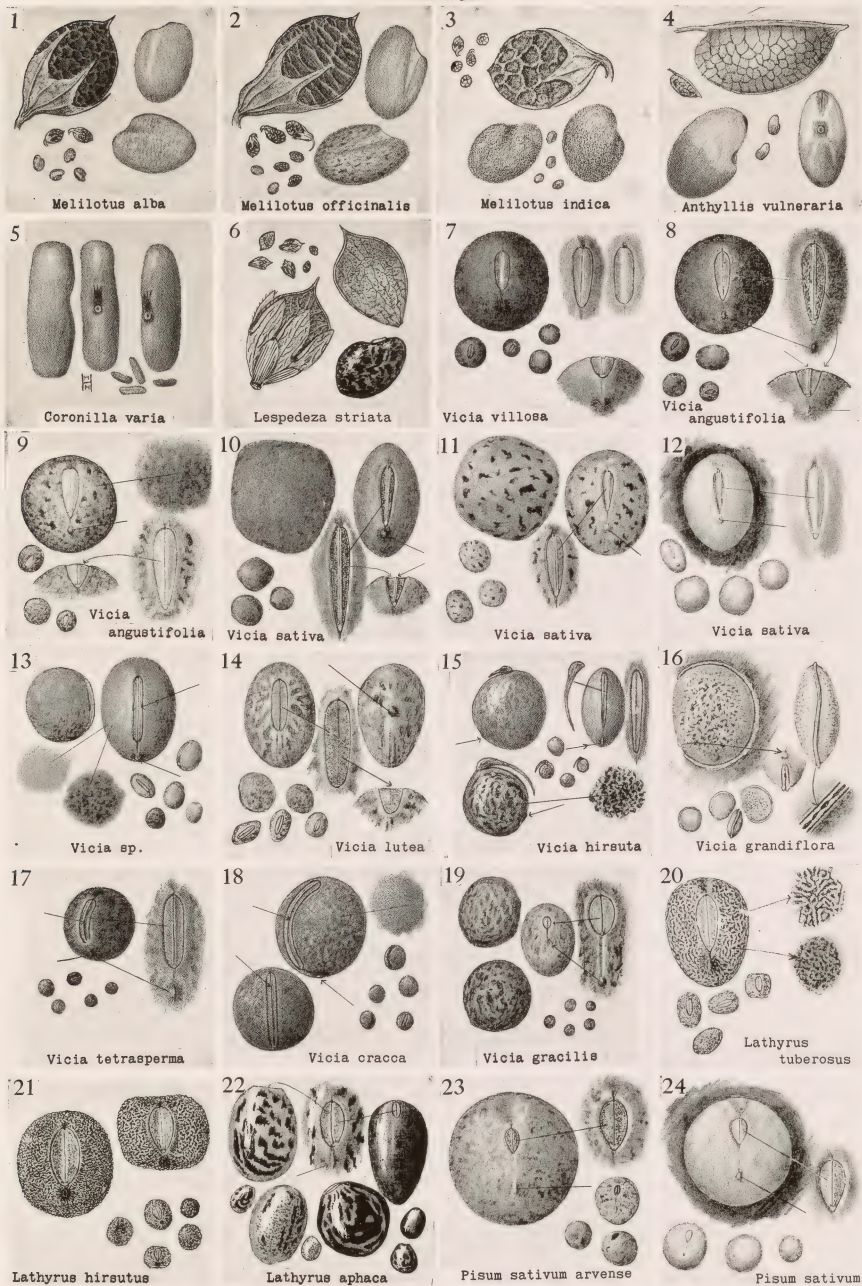


PLATE 10\*

1. *Trigonella foenum-graecum* L. Fenugreek
2. *Onobrychis viciaefolia* Scop. Sainfoin  
*Onobrychis vulgaris* Gueldenst.
3. *Ornithopus sativus* Brot. Serradella
4. *Swainsona salsula* (Pall.) Taub. No common name
5. *Alhagi pseudalhagi* (Bieb.) Desv. Camelthorn  
*Alhagi camelorum* Fisch.
6. *Oxalis stricta* L. Yellow Oxalis
7. *Linum usitatissimum* L. Flax
8. *Linum virginianum* L. Woodland flax  
*Cathartolinum virginianum* (L.) Reichenb.
9. *Geranium dissectum* L. Cutleaf cranesbill
10. *Geranium carolinianum* L. Carolina cranesbill
11. *Geranium columbinum* L. Longstalk cranesbill
12. *Geranium molle* L. Dovefoot cranesbill
13. *Geranium pusillum* L. Small cranesbill
14. *Erodium cicutarium* (L.) L'Her. Alfileria
15. *Acalypha virginica* L. Three-seed; three-seeded mercury
16. *Euphorbia preslii* Guss. Nodding spurge  
*Chamaesyce preslii* (Guss.) Arth.
17. *Euphorbia maculata* L. Spotted spurge  
*Chamaesyce maculata* (L.) Small
18. *Sida spinosa* L. Spinemallow
19. *Abutilon theophrasti* Medic. Velvetleaf
20. *Malva rotundifolia* L. Running mallow; cheeses
21. *Malva parviflora* L. Little mallow
22. *Althaea hirsuta* L. No common name
23. *Hibiscus trionum* L. Flower-of-an-hour
24. *Hypericum perforatum* L. St.Johnswort

\*Synonyms, or unapproved names, underscored



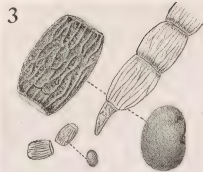
PLATE 10



1 *Trigonella foenum graecum*



2 *Onobrychis viciaefolia*



3 *Ornithopus sativus*



4 *Swainsona salsula*



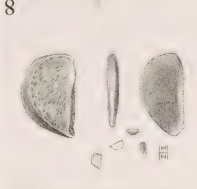
5 *Alhagi pseudalhagi*



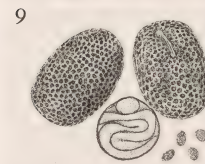
6 *Oxalis stricta*



7 *Linum usitatissimum*



8 *Linum virginianum*



9 *Geranium dissectum*



10 *Geranium carolinianum*



11 *Geranium columbinum*



12 *Geranium molle*



13 *Geranium pusillum*



14 *Erodium cicutarium*



15 *Acalypha virginica*



16 *Euphorbia preslii*



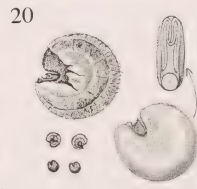
17 *Euphorbia maculata*



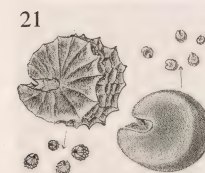
18 *Sida spinosa*



19 *Abutilon theophrasti*



20 *Malva rotundifolia*



21 *Malva parviflora*



22 *Althaea hirsuta*



23 *Hibiscus trionum*



24 *Hypericum perforatum*

PLATE 11\*

1. *Viola tricolor* L. Pansy
2. *Lythrum hyssopifolia* L. Hyssop loosestrife
3. *Ludwigia alternifolia* L. Seedbox
4. *Epilobium paniculatum* Nutt. Panicle willow-weed
5. *Epilobium* sp. Willow-weed
6. *Oenothera biennis* L. Evening-primrose
7. *Raimannia laciniata* (Hill) Rose Cutleaf evening-primrose  
*Oenothera laciniata* Hill
8. *Conium maculatum* L. Poisonhemlock
9. *Conium* sp. No common name
10. *Torilis nodosa* (L.) Gaertn. Hedgeparsley  
*Caucalis nodosa* Scop.
11. *Daucus carota* L. Wild carrot
12. *Ammi visnaga* (L.) Lam. Toothpickplant
13. *Anthriscus sylvestris* (L.) Hoffm. Wild chervil
14. *Anagallis arvensis* L. Red pimpernel
15. *Convolvulus arvensis* L. Bindweed
16. *Ipomoea purpurea* (L.) Roth Morning-glory
17. *Cuscuta epilinum* Weihe Flax dodder
18. *Cuscuta epithymum* Murr. Clover dodder
19. *Cuscuta planiflora* Tenore Littleseed dodder
20. *Cuscuta pentagona* Engelm. Field dodder  
*Cuscuta arvensis* Beyr.
21. *Cuscuta racemosa chiliana* Engelm. Chilean dodder
22. *Cuscuta indecora* Choisy. Bigseed dodder
23. *Lappula echinata* (L.) Gilib European stickseed
24. *Lappula occidentalis* (S.Wats.) Greene Western stickseed  
"*Lappula texana*"

\*Synonyms, or unapproved names, underscored



PLATE 11

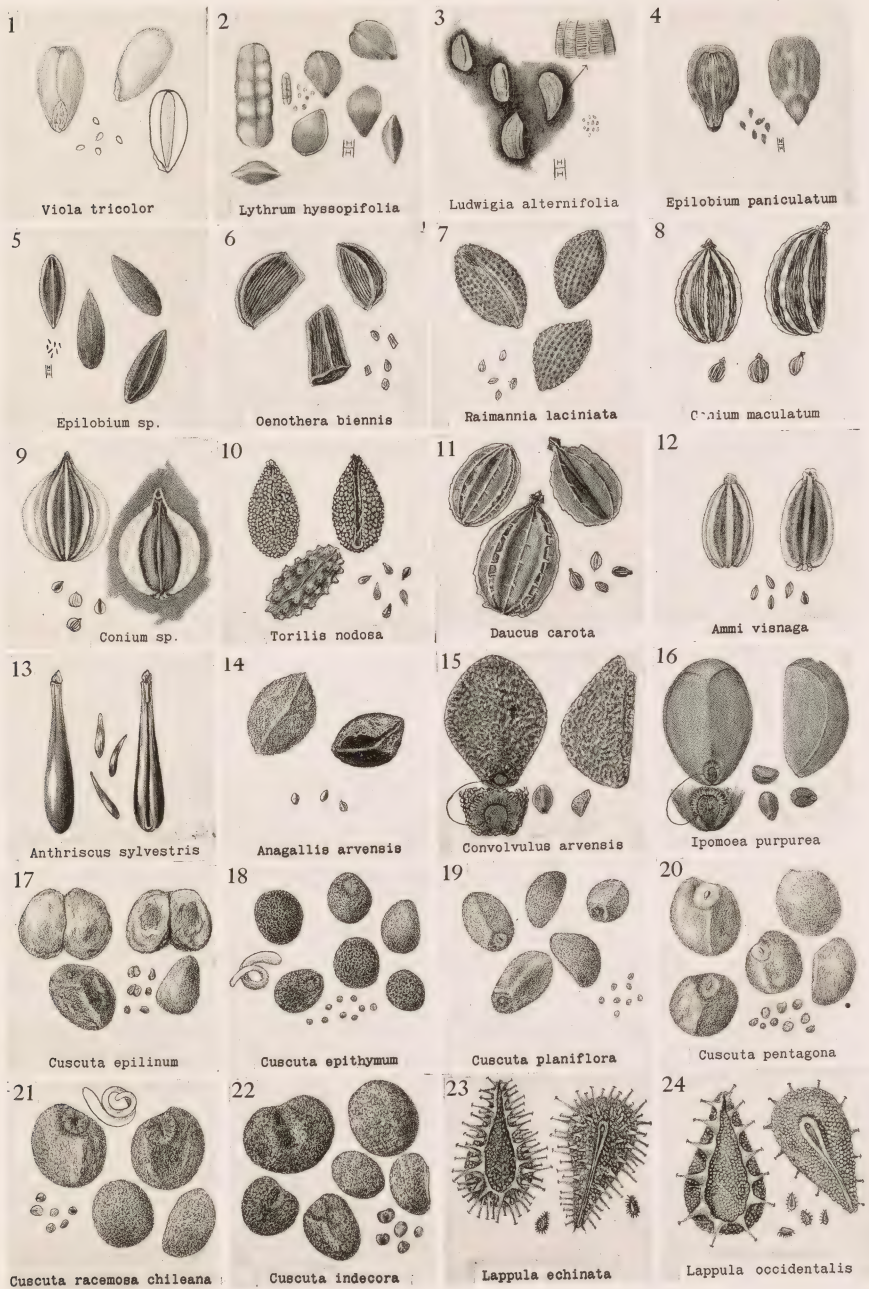


PLATE 12\*

1. *Myosotis arvensis* (L.) Hill Forget-me-not
2. *Lithospermum arvense* L. Field gromwell
3. *Echium vulgare* L. Blueweed
4. *Verbena officinalis* L. Vervain
5. *Verbena urticifolia* L. White vervain
6. *Verbena hastata* L. Blue vervain
7. *Verbena stricta* Vent. Hoary vervain
8. *Ajuga chamaepitys* (L.) Schreb. Ground bugle
9. *Teucrium canadense* L. American germander
10. *Marrubium vulgare* L. White hoarhound
11. *Nepeta cataria* L. Catnip
12. *Moldavica parviflora* (Nutt.) Britton American dragonhead  
*Dracocephalum parviflorum* Nutt.
13. *Prunella vulgaris* L. Selfheal
14. *Galeopsis tetrahit* L. Hempnettle
15. *Galeopsis ladanum* L. Red hempnettle
16. *Leonurus cardiaca* L. Motherwort
17. *Lamium amplexicaule* L. Henbit
18. *Stachys annua* L. Field betony
19. *Stachys palustris* L. Marsh betony
20. *Salvia sclarea* L. Clary
21. *Salvia lanceaefolia* Poir. Lanceleaf sage
22. *Salvia sylvestris* L. Pasture sage
23. *Salvia* sp. Sage
24. *Hedeoma pulegioides* (L.) Pers. American pennyroyal

\*Synonyms, or unapproved names, underscored

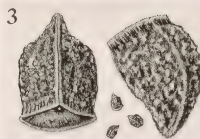
PLATE 12



*Myosotis arvensis*



*Lithospermum arvense*



*Echium vulgare*



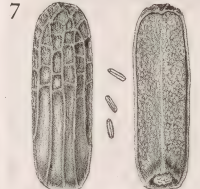
*Verbena officinalis*



*Verbena urticifolia*



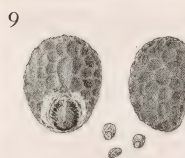
*Verbena hastata*



*Verbena stricta*



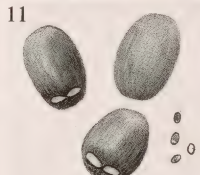
*Ajuga chamaepitys*



*Teucrium canadense*



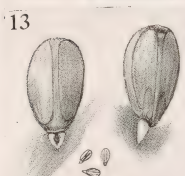
*Marrubium vulgare*



*Nepeta cataria*



*Moldavica parviflora*



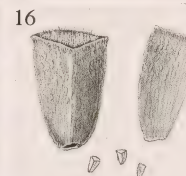
*Prunella vulgaris*



*Galeopsis tetrahit*



*Galeopsis ladanum*



*Leonurus cardiaca*



*Lamium amplexicaule*



*Stachys annua*



*Stachys palustris*



*Salvia sclarea*



*Salvia lanceaefolia*



*Salvia sylvestris*



*Salvia sp.*



*Hedeoma pulegioides*



PLATE 13\*

1. *Clinopodium acinos* (L.) Kuntze    Basil-thyme  
    *Satureja acinos* (L.) Scheele
2. *Koellia* sp.    Mountain-mint  
    *Pycnanthemum* sp.
3. *Lycopus virginicus* L.    American bugleweed
4. *Mentha arvensis* L.    Field mint
5. *Hyoscyamus niger* L.    Henbane
6. *Solanum nigrum* L.    Black nightshade
7. *Solanum carolinense* L.    Horsenettle
8. *Solanum rostratum* Dunal    Buffalo-bur
9. *Verbascum thapsus* L.    Flannel mullein
10. *Scrophularia marilandica* L.    American figwort
11. *Veronica arvensis* L.    Corn speedwell
12. *Veronica peregrina* L.    Purslane speedwell
13. *Veronica agrestis* L.    Field speedwell
14. *Kickxia spuria* (L.) Dumort.    Roundleaf toadflax  
    *Linaria spuria* (L.) Mill.
15. *Euphrasia* sp.    Eyebright
16. *Plantago rugelii* Decaisne    Blackseed plantain
17. *Plantago major* L.    Rippleseed plantain
18. *Plantago lanceolata* L.    Buckhorn plantain
19. *Plantago aristata* Michx.    Bottlebrush plantain
20. *Plantago virginica* L.    Paleseed plantain
21. *Houstonia purpurea* L.    Field houstonia
22. *Diodia teres* Walt.    Rough buttonweed
23. *Galium aparine* L.    Catchweed
24. *Sherardia arvensis* L.    Fieldmadder

\*Synonyms, or unapproved names, underscored

PLATE 13



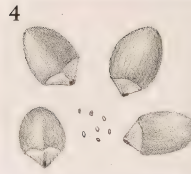
*Clinopodium acinos*



*Koellia* sp.



*Lycopus virginicus*



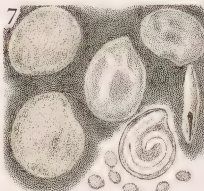
*Mentha arvensis*



*Hyoscyamus niger*



*Solanum nigrum*



*Solanum carolinense*



*Solanum rostratum*



*Verbascum thapsus*



*Scrophularia marilandica*



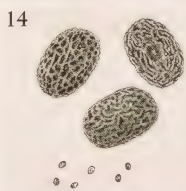
*Veronica arvensis*



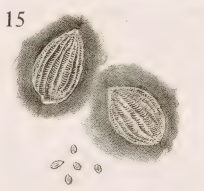
*Veronica peregrina*



*Veronica agrestis*



*Kickxia spuria*



*Euphrasia* sp.



*Plantago rugelii*



*Plantago major*



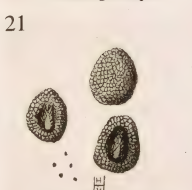
*Plantago lanceolata*



*Plantago aristata*



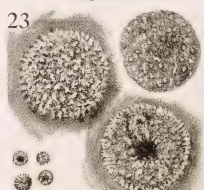
*Plantago virginica*



*Houstonia purpurea*



*Diodia teres*



*Galium aparine*



*Sherardia arvensis*



PLATE 14\*

1. *Valerianella dentata* Pall. Toothed cornsalad
2. *Valerianella locusta* (L.) Betché Cornsalad
3. *Valerianella eriocarpa* Desv. Italian cornsalad
4. *Dipsacus sylvestris* L. Wild teasel
5. *Scabiosa arvensis* L. Field scabiosa
6. *Specularia perfoliata* (L.) A. DC. Venus lookingglass
7. *Lobelia inflata* L. Indian-tobacco
8. *Cichorium intybus* L. Chicory
9. *Lapsana communis* L. Nipplewort
10. *Arnoseris minima* (L.) Dumort. Lamb-succory
11. *Hypochaeris radicata* L. Spotted cats-ear
12. *Apargia autumnalis* (L.) Hoffm. Fall-dandelion  
*Leontodon autumnalis* L.
13. *Apargia nudicaulis* (L.) Britton Rough hawkbit  
*Leontodon nudicaulis* (L.) Banks
14. *Leontodon taraxacum* L. Dandelion  
*Taraxacum officinale* Weber.
15. *Picris hieracioides* L. Hawkweed picris
16. *Picris echioides* L. Oxtongue
17. *Tragopogon pratensis* L. Buckbeard
18. *Sonchus asper* (L.) Hill Prickly sowthistle
19. *Sonchus oleraceus* L. Common sowthistle
20. *Sonchus arvensis* L. Perennial sowthistle
21. *Lactuca scariola integrata* Gren. & Godr. Prickly lettuce  
*Lactuca integrata* (Gren. & Godr.) A. Nels.
22. *Lactuca canadensis* L. Tall lettuce
23. *Crepis capillaris* (L.) Wallr. Smooth hawkbeard
24. *Hieracium aurantiacum* L. Orange hawkweed

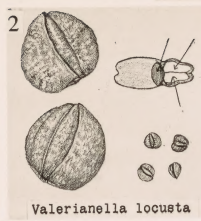
\* Synonyms, or unapproved names, underscored



PLATE 14



*Valerianella dentata*



*Valerianella locusta*



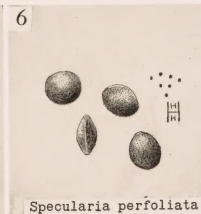
*Valerianella eriocarpa*



*Dipsacus sylvestris*



*Scabiosa arvensis*



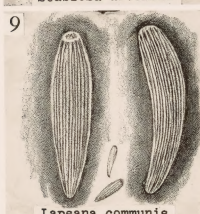
*Specularia perfoliata*



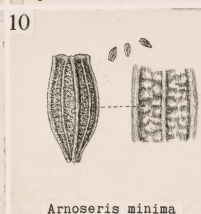
*Lobelia inflata*



*Cichorium intybus*



*Lapsana communis*



*Arnoseris minima*



*Hypochaeris radicata*



*Apargia autumnalis*



*Apargia nudicaulis*



*Leontodon taraxacum*



*Picris hieracioides*



*Picris echioides*



*Tragopogon pratensis*



*Sonchus asper*



*Sonchus oleraceus*



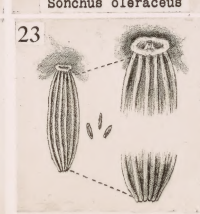
*Sonchus arvensis*



*Lactuca scariola integrata*



*Lactuca canadensis*



*Crepis capillaris*



*Hieracium aurantiacum*

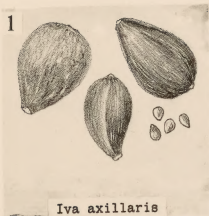
PLATE 15\*

1. *Iva axillaris* Pursh    Sumpweed
2. *Iva ciliata* Willd.    Rough sumpweed
3. *Iva xanthifolia* Nutt.    Bigleaf sumpweed
4. *Ambrosia elatior* L.    Common ragweed  
*Ambrosia artemisiaefolia* L.
5. *Grindelia squarrosa* (Pursh) Dunal    Curlycup gumweed
6. *Erigeron canadensis* L.    Horseweed
7. *Rudbeckia hirta* L.    Black-eyed-susan
8. *Helianthus annuus* L.    Common sunflower
9. *Achillea millefolium* L.    Common yarrow
10. *Anthemis cotula* L.    Mayweed
11. *Anthemis arvensis* L.    Field camomile
12. *Chrysanthemum leucanthemum* L.    Oxeye daisy
13. *Matricaria inodora* L.    False-camomile
14. *Erechtites hieracifolia* (L.) Raf.    Burnweed
15. *Cirsium lanceolatum* (L.) Hill    Bull thistle  
*Carduus lanceolatus* L.
16. *Cirsium arvense* (L.) Scop.    Canada thistle  
*Carduus arvensis* (L.) Robs.
17. *Carduus crispus* L.    Curly thistle
18. *Centaurea cyanus* L.    Cornflower
19. *Centaurea jacea* L.    Brownscale knapweed
20. *Centaurea calcitrapa* L.    Star-thistle
21. *Centaurea melitensis* L.    Malta star-thistle
22. *Centaurea solstitialis* L.    Yellow star-thistle
23. *Centaurea picris* Pall.    Russian knapweed
24. *Madia sativa* Mol.    Chilean tarweed

\*Synonyms, or unapproved names, underscored



PLATE 15



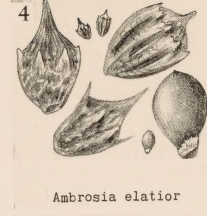
*Iva axillaris*



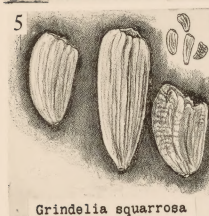
*Iva ciliata*



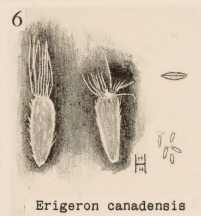
*Iva xanthifolia*



*Ambrosia elatior*



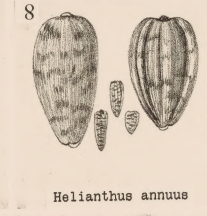
*Grindelia squarrosa*



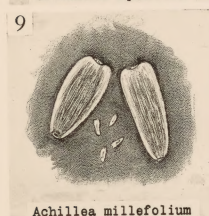
*Erigeron canadensis*



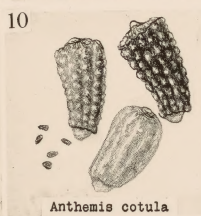
*Rudbeckia hirta*



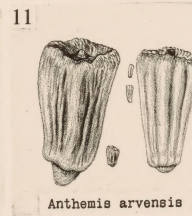
*Helianthus annuus*



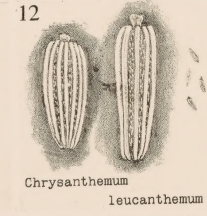
*Achillea millefolium*



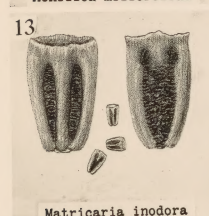
*Anthemis cotula*



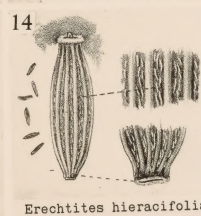
*Anthemis arvensis*



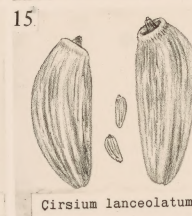
*Chrysanthemum leucanthemum*



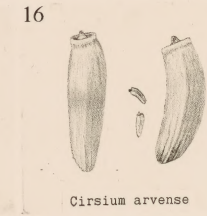
*Matricaria inodora*



*Erechtites hieracifolia*



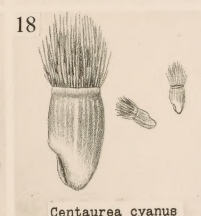
*Cirsium lanceolatum*



*Cirsium arvense*



*Carduus crispus*



*Centaurea cyanus*



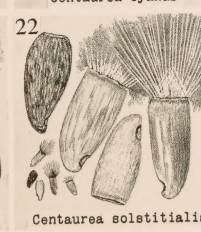
*Centaurea jacea*



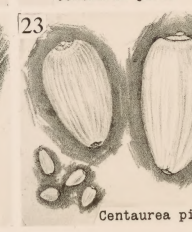
*Centaurea calcitrapa*



*Centaurea melitensis*



*Centaurea solstitialis*



*Centaurea picris*



*Madia sativa*